

Alfredo Bello

Summary

- Solution architect/technical lead/developer with a master's degree in computer science.
- Full stack developer with more than 15 years of experience in web applications.
- Spring Boot developer with more than 5 years of experience.
- More than 2 years developing SPAs (single page applications) with angular and expressjs over docker containers.
- Proficient knowledge in JavaScript/Typescript with several frameworks like Expressjs, Angular and NestJs.
- Excellent experience in code quality with, findbugs, pmd, check style, SonarQube, jslint, eslint and proguard.
- I have experience in Postgres, MySQL, SQL server, H2, SQLite and MongoDB.
- Expertise in several design patterns like MVC, Mediator, Singleton, Adapter and Chain of responsibility.
- Experience in DevOps applications like Jenkins, vagrant and docker with continues integration.
- Good understanding of Agile/SCRUM with the ability to conduct SCRUM meetings and good practices.
- Expert in software testing with different tools like junit, mocks, TDD, BDD, Chai, Mocka Jazmine.
- Wide experience in Git and Git Flow
- Valuable experience in building tools like Maven, Gradle and Gulp.
- Wide experience in multi-threading applications in java.
- Expert in restful web services.
- Enthusiast Linux user.
- Basic knowledge in machine learning with python, pandas, sklearn and anaconda
- Wide experience in J2EE applications with glassfish, tomcat ee, wildfly and spring framework.
- Expertise in old technologies like bootstrap, jsp, servlets, java beans, Daos, jQuery and ajax.

Work Experience:

Position: Solution Architect
Project: Employee Recognition
Company: Softek
Jun 21 – present

Description

Define which architecture is the best for the client based on client requirement and needs.

Description:

- Get client requirements.
- Design the architecture based on requirements.
- Interview candidates.
- Create a team.
- Define functional requirements.
- Define nonfunctional requirements.
- Create roadmap or backlog.
- Choose the best technologies for the project.
- Create diagrams like C4 architecture.
- Keep communication with DevOps team to implement deployments.
- Establish internal process with the team.

Responsibilities

- Assign tasks to developers.
- Implement code based on backlog.
- Create a project skeleton.
- Keep code quality based on several tools like checkstyle, pmd etc.
- Review developer's code.
- Mentoring fresh developers.

Environment

MongoDb, Java, Spring Boot, Kafka, Docker, K8s

Position: Senior Backend developer

Project: Ultra

Company: Encora

Jan 21 – Jun 21

Description

- Track game sells (video games)
- Apply discounts in video games.
- Schedule discounts.

Responsibilities

- Communicate microservices with messages.
- Implement good practices in microservices.
- Create rest apis with nestjs, mongoose and mongodb

Environment

AWS SQS, AWS ECR, NestJs, MongoDB, Typescript, Jest, Eslint, Mongoose, Docker, Docker Compose

Position: Front End Technical Lead

Project: Istorm

Company: IBM

May 20 - Jan 21

Description

- Capture information from squads working in remote places.
- Calculating workers' biatical/meals
- Assigning working hours of the remote squads
- Calculate roster of the team.

Responsibilities

- Design website to track the hours of remote employees.
- Create and develop Angular websites.
- Layout the prototype and show it to the customer.
- Responsible for production deployment
- Assign tasks to developers.
- Talk to the customer and the business analyzer to create user stories.

Environment

Angular, express, Docker, Jenkins, Jira, Typescript, Eslint

Position: Technical Lead
Company: AstraZeneca
Jan 19 - May 20

Description

- Take architectural decisions about system design.
- Define project process.
- Rectify errors found in process.
- Implement best practices according to client or company standards.
- Identify project risks.
- Take responsibility when the team or project is ambiguous.
- Assign responsibilities to each member of the team.
- Responsible for the planning and execution of the systems.
- Help teams to achieve their goals related to the project.
- Solve problems related to devOps.
- Identify and clear road blocker of the team.
- Help new developers through mentoring.
- Provide micro-services to speed up common functions of developers.
- Unlock problems related to continues delivery.
- Fresh developers mentoring.
- Review code automatically.
- Lead support team.
- Verify that app demos were executed properly, in the right environment.
- Verify that developers create their code with TDD.
- Verify that developers follow the rules and standards.
- Define Rules and standards for developers.

Responsibilities

- Manage Algorithm club.
- Mentoring classes.
- Review App Demos.
- Code review with Sonarqube, PMD, FindBugs, Checkstyle, ESLint, JSLint and Proguard.
- Support team was my responsibility.
- Template creation to speed up development and adapt code to architectural decisions, creation of Angular, Expressjs and Spring boot templates to save time.
- Creation of micro-services to provide common functions like (send emails, create users, send notifications to mobile apps, track errors etc) with Spring boot.
- Automation team were under my supervision.
- Ensure that all the teams follow best practices, automatically execute code reviews in Jenkins pipeline.
- Check code complexity of entire code team with SonarQube.
- Create functional test of developer's code in support team.
- Create documentation in Confluence about all architectural designs.
- Unlock problems related to Docker, Jenkins, and CI/CD
- Help Business Analyst to give a better understanding of the software complex.
- Restrict sending inferior quality of the code with Husky.
- Verify code coverage with Jacoco.

Environment:

Docker, Postgres, MongoDB, Expressjs, Angular, Ionic, Typescript, Nodejs, Spring Boot, Javascript, Java, Sonarqube, PMD, FindBugs, Checkstyle, ESLint, JSLint, Proguard, Jenkins, Docker, Husky, Jacoco.

Position: Senior Software developer

Project: Datahub

Company: AstraZeneca

Sep 18 - Dec 18

Description

- To track all the assets related to labs.
- To calculate the value of specific lab base on assets.
- Provide finance information about the assets like cost.
- To know who is responsible for the assets.
- To schedule assets transitions (move assets from one place to another).

Responsibilities

- To choose better architecture and avoid blocking developer's job.
- Create an API in Spring boot to handle different clients like web and mobile.
- Persist object into the database with JPA, Hibernate and Spring repositories.
- Manage database migrations over Flyway with Postgres DB.
- Use TDD to create new code with Junit.
- Use H2 database in test environment to create real testing.
- Automatic code review with PMD, FindBugs and Checkstyle to avoid bad practices in local environment.
- Automatic code review with sonarqube in dev, test, preprod and prod environments to calculate cyclomatic code complexity, code smells and track bugs to guarantee code quality.
- Create a front end in Angular and Typescript served with Expressjs to track assets.
- Using ESLint to check bad practices and code quality in Typescript.
- To use JSLint to check bad practices and code quality in Javascript.
- Create testing with Mocha and Chai in Javascript.
- Create testing in Angular with Jazmin and PhantomJS.
- To use Husky in Javascript to avoid pushing bad code to the repository.
- Review code with Sonarqube to check the quality of the software.

- Convert user stories in functional system.
- Help BA to analysis the problem.
- Lead front end and backend developers.
- Approve pull requests.
- Follow Agile Software development with Scrum Methodology.
- Create environments (dev, test, preprod and prod) in Jenkins and Docker.

Environment:

Postgres, H2, Flyway, Junit, Mockito, TDD, Javascript, Expressjs, Angular, Angular Material, Typescript, PhantomJS, Mocha, Jazmine, Chai, ESLint, JSLint, PMD, Checkstyle, FindBugs, Sonarqube, Jenkins, Docker.

Position: Senior Software developer
Project: Empower Lace Application (ELA)
Company: AstraZeneca
Dec 17 - Ago 18

Description

- Automated routine of OP (Operation Process) for 900 computers around the world.
- The automation of the process was to execute a thirty-party software that checks the integrity of the software installed in the computer connected to the chromatogram.
- Track every execution of thirty party software.
- Execute the OP in all the machines at the same time.
- Review that the process finished properly and generated a report.

Responsibilities

- To create an API in Spring Boot to handle the execution of the process remotely.
- Use H2 database in test environment to create real testing.
- Persist object into the database with JPA, Hibernate and Spring repositories
- Use TDD to create new code with Junit.
- Automatic code review with PMD, FindBugs and Checkstyle to avoid bad practices.
- To create a remote client in java to send information to the main server.
- To create a windows service with Apache Commons Daemon and run the remote client.
- To create a front end in Angular Typescript and ExpressJS in order to run the execution of the thirty-party software and download the reports.
- Using ESLint to check bad practices and code quality in Typescript.
- To use JSLint to check bad practices and code quality in Javascript.
- Create testing with Mocha and Chai in Javascript.
- Create testing in Angular with Jazmin.
- Review code with Sonarqube to check the quality of the software.
- Manage migrations over Flyway with Postgres DB.

- Convert user stories in functional system.
- Help BA to analysis the problem.
- Lead front end and backend developers.
- Approve pull requests.
- Follow Agile Software development with Scrum Methodology.
- Create environments (dev, test, preprod and prod) in Jenkins and Docker.

Environment:

H2, Flyway, Junit, TDD, Javascript, Expressjs, Angular, Angular Material, Typescript, Mocha, Jazmine, Chai, ESLint, JSLint, PMD, Checkstyle, FindBugs, Sonarqube, Jenkins, Docker.

Position: Senior Software developer
Project: Qualys Data Process Tool (qualys DTP)
Company: AstraZeneca Security Depot
Jun 17 - Nov 17

Description

- Qualys is a thirty-party software that scans computers and detects vulnerabilities. The main goal of the project was to process the result (CSV file) of Qualys and detect which servers/computers are not in compliance.
- The process of the file was to count how many vulnerabilities there are to computer and classify the computer in diverse groups depending on vulnerability severity.
- Calculate how many times the computers are not in compliance.
- Generate a report of how many computers are not in compliance.

Responsibilities

- To create a front end with Angular, Typescript and Expressjs to upload the CSV files and download the report.
- Analysis the problems with the client, this project did not have a BA.
- To create a Spring Boot API and process the file.
- Persist object into the database with JPA, Hibernate and Spring repositories
- Automatic code review with PMD, FindBugs and Checkstyle to avoid bad practices.
- Manage database migrations over Flyway with Postgres DB.
- Review code with Sonarqube to check the quality of the software.
- Manage migrations over Flyway with Postgres DB.

- Convert user stories in functional system
- Follow Agile Software development with Scrum Methodology.
- Create environments (dev, test, preprod, prod)

Environment:

Postgres, Flyway, Junit, TDD, Javascript, Expressjs, Angular, Angular Material, Typescript, ESLint, JSLint, PMD, Checkstyle, FindBugs, Sonarqube, Jenkins, Docker.

Position: Senior Software developer

Project: Mobility Portal

Company: AstraZeneca

Feb 17 - May 17

Description

- Create a portal to enroll mobile devices to Airwatch and use the resources of AstraZeneca like email, chat etc.
- Collect some data about the user and the phone to send this information to Airwatch.

Responsibilities

- Convert user stories in functional system.
- Create a monolithic application served in Java with Spring Boot.
- Create a front end in Angular and Typescript to collect the data of the user and mobile phone.
- Send the collected data to Airwatch through restful services.

- Follow Agile Software development with Scrum Methodology.
- Create environments (dev, test, preprod, prod) in Jenkins.
- Support the application for errors.

Environment:

Postgres, Angular, Angular Material, Typescript, Spring Boot.

Position: Senior Software developer

Project: Values at work (ivalue)

Company: AstraZeneca

Sep 16 – Feb 17

Description

- Create a web app, mobile application, to show policies, news, and code of conduct about the company.
- Ivalue shows information related to news, policies, and code of conduct of each country.
- This application runs on several devices like mobile, web and desktop.
- It requires an administration system to manage countries and users.

Responsibilities

- To create monolithic systems that serve Angular static files with java Spring Boot.
- To create mobile application with Ionic to show policies and news in user's devices.
- To create web applications to manage policies and users.
- Persist object into the database with JPA, Hibernate and Spring repositories

- Convert user stories in functional system.
- Follow Agile Software development with Scrum Methodology.

Environment:

Ionic, Typescript, Spring boot, Postgres.

Position: Senior Software developer

Project: DST Ticketing

Company: IBM

Feb 14 – Sep 16

Description

- DST Ticketing is a system that follows problems, issues and concerns about problems related to computers and servers. It uses a MDR (Master Data Repository) to extract information related to servers, this database is supported by sysadmins. The system track comments and files related to the ticket and marks the tickets with due date if the ticket has more than 3 days, the system sends emails to the users related to the ticket.

Responsibilities:

- Create a scheduler in python to mark tickets as due.
- To create a front end with html and dojo.
- To create a back end in PHP to save, update, delete tickets over Code Igniter.
- Save, update and delete data in MySQL.
- Work in the back end and front-end.
- Create module to send emails to the customers in PHP.
- Create a view to show information about the ticket with HTML, CSS and Dojo.
- Implemented web wizards to improve the experience with customers.
- Review code of other developers to improve the quality.
- Create libraries in code igniter for other developers.
- Track every transaction of the database with PHP.

Environment:

Linux, java, python, php, apache, mysql, dojo, codeigniter, jazz, mvc, git, scrum, RTC

Position: Senior Software developer
Project: Network Monitoring System
Company: General DataComm
6 Months

Description:

- The system monitors the network sending ping to all the computers and servers, and save if the result is positive or negative, the sizes of the network were more than 10 000 computers, the pinging should be in less than a minute, if one computer doesn't response the ping that computer should be mark in yellow status which means that the computer is not available, then another process takes the computer and sends pings during 4 mins, if the computer doesn't response is marked as red and is not available in the network.

Responsibilities:

- Create a multi-threading (thread-pool) module to send ping command in Java 7.
- Create a JSP, Servlets and Html web site to show the reports with Glassfish.
- Use Hibernate to Persist objects in Mysql database.
- Automate builds with Maven.

Environment:

Glassfish, java, maven, mysql, hibernate, dao, thread pool, linux

Position: Senior Software developer
Project: Syspro Application Manager
Company: General DataComm
2 years

Description:

- The main goal of the project is to collect data over the network through mirror port, all the data should be captured.
- Front end should show charts about statistics of the network like ranking of IP address that consume network, which protocol is the most used, which website has more requests and so on.
- The project is not limited to only one site, it is possible to capture other remote networks.
- Remote sites send the information over sockets in binary format to the main server.
- The front end has the capability to drag and drop in the charts and create any combination.

Responsibilities:

- To create a module to capture all the packages of the network with JPCAP.
- Store all network packages in Mysqls with engine InfoBrighth.
- To create a service to provide information about the network.
- To create a server with Java Sockets to retrieve information of remote sites.
- To create a website in JSP, HTML, CSS, JQuery and MVC to show the statistics about the network with Glassfish.
- Design Responsive website (Bootstrap) to show information in different devices.
- To communicate front end and back was with JAX-RS and JSON.

Environment:

Linux, java, jsp, struts, pmd, restful, json, jquery, mvc, mercurial, scrum, junit, hibernate, mysql, glassfish

Position: Senior Software developer

Project: Syspro Sniffer Network

Company: General DataComm

2 years

Description:

- Desktop application to show information about network with statistics like ranking of IP address that consume network, which protocol is the most used, which website has more requests and so on.
- Server application is use for capture network traffic and store it into database.
- Process packages to reduce query time are made on the server side.
- InfoBrigth was used to increase query time.

Responsibilities:

- To create a desktop application with Java Swing.
- To spread desktop application with Java Web Start.
- To create drag and drop items in desktop application with Swing.
- Connection with database was with Glassfish Connection-pooling and Mysql.
- To use Hibernate to persist object into Database.
- To communicate systems with JMS.
- To check code for bugs with PMD.

Environment:

Linux, glassfish, java, swing, pmd, mercurial, junit, hibernate. jms, mysql

Position: Software developer
Project: Phone Call Monitor
Company: General DataComm
8 months

Description:

- This project is to read the result of Cisco Voice Manager (CVM) and make the summary of the calls then the data is stored in the database to do some statistic about which phone consumes more network and which protocols are the most used.

Responsibilities:

- To read text plain file (CSM file) and stored into the database Mysql.
- To perform SQL queries in back end to create statistics about phone calls.
- To create a website in PHP, HTML, CSS and JQuery to show information about calls.

Environment:

Linux, apache, php, mysql, jquery

Position: Software developer
Project: Sispro Traffic Filter

Company: General DataComm

2 years

Description:

- This project is related to filter websites and restricting access to the internet. To do the filter, I used Squid which is a proxy, and it can filter websites and grant access to internet, the project is a wrapper of this system.

Responsibilities:

- To research a program open source for filter web sites, install it, configure it,
- Create a frontend in JSP, Servlets, Struts, jQuery and Glassfish to show the data,
- Understand the format of the logs, read the logs with java to save the data in MySQL,
- Design database structure with Mysql Workbench.
- To test squid guard in a network as transparent proxy and as gateway.
- Export the data to excel files with POI library.
- To create PDF reports with iText java library,
- To create a bash file to install everything.

Environment:

Squid, jsp, struts, jquery, uml, servlets, junit, glassfish, hibernate

Position: Software developer
Project: Sispro Traffic Shaper
Company: General DataComm
1 year

Description:

- This project was a wrapper of master shaper open-source project, master shaper balances all the traffic of the network, and another website shows the configuration of the balancer.
- Project was made the front-end with the specifications of the client.

Responsibilities:

- To research a program open source to balance traffic network.
- To install, configure and detect how to get the data of the software.
- To create a front-end in JSP, Servlets, Struts, jQuery and Glassfish to show the configuration of the software.
- To store data in Mysql.
- To check code quality with PMD.

Environment:

Master shaper, jsp, struts, jquery, uml, servlets, junit, glassfish, hibernate.

Position: Software developer
Project: Financial Dashboard
Company: General DataComm
1 year

Description:

- This project is to give some tools to the sales department. This tool was creating simulators (mortgage, car etc.), and ensure calculations and accountable estimations.

Responsibilities:

- I designed and built several components like credit simulators and accounting estimations.
- I was responsible for all the extensive chart rendering and interaction architecture.
- I did the website in JSP, Struts and JQuery in Glassfish server application.

Environment:

Jsp, struts, jquery, uml, servlets, junit, glassfish

Position: Software developer
Project: WallStrong
Company: General DataComm
3 years

Description:

- This project was created in visual studio fox pro and the client request an update but the software to a modern technology, the migration was in java, the system collect information about the network like SSH connections, ftp connections and other that use transfer files.

Responsibilities:

- To build a web user interface over JSP, Ajax, Javascript and CSS to show data in line charts and bar charts about the protocols of the network.
- To export data in excel format and CSV
- To store information in Mysql.

Environment:

Linux, glassfish, jsp, java, mercurial, mysql, javascript, ajax.

Position: JR Developer

Company: Network services

Nov 2007 – 2009

Description:

- I didn't have a project, I was learning to build web systems, my mentors and coworkers help me to create software, my first language was PHP, I did the corporative websites of the company (around 4 or 5) and I create a small software to store the date when some update happened in e-mexico project.

Responsibilities:

- Corporative websites

Environment:

Windows, apache, mysql, php, java

Position: Technical Support and Developer

Company: Network services

May 06 – Nov 07

Description:

- Diagnose and troubleshoot software and hardware problems and help customers to install applications and programs. Technical Support Engineer responsibilities include resolving network issues, configuring operating systems and using remote desktop connections to provide immediate support.

Responsibilities:

- Fix network problems.
- Support email server.
- Create bash files to monitor process of the servers.
- Attend users.
- Format and Install windows SO.
- Create a corporate website.

Environment:

Windows, apache, mysql, flash, java

Position: JR Graphic Designer

Company: Imagen y Creatividad

2000-2001

Description:

- JR Graphic Designer in small printer, my responsibilities were to draw in corel draw 8, color separations, creation of negatives for prints, design of flyers and silkscreen.

Contact information

Mobile: +52 33 1572 3696

Email: skuarch@yahoo.com.mx

Linkedin: <https://www.linkedin.com/in/skuarch/>

Twitter: @skuarchDevelop

Github: <https://github.com/skuarch>