

Eduardo Fernandez

Senior Software Engineer — AWS Certified

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About me

With over four years of experience as a Senior Software Engineer, I have specialized in designing, developing, and implementing robust microservices applications primarily for Verizon as a contractor through CAPGEMINI. My role has focused on leveraging advanced technical skills in microservice architecture, leading project management, guiding junior developers, and streamlining network service automation processes to enhance operational efficiency. My technical proficiency encompasses Java 17, Spring Boot, Oracle SQL, Python and Angular, managing the full lifecycle of software development from requirement gathering to deployment. I have excelled in automating UI and API testing with tools like Selenium and Robot Framework, reducing errors, and improving product reliability. My expertise also extends to network function virtualizations and orchestrating virtual network functions, demonstrating capability in network programming and infrastructure development. Alongside technical skills, my leadership in mentoring junior engineers and leading project teams has been crucial in aligning development efforts with strategic business goals, delivering innovative solutions that meet the complex demands of the modern telecommunications industry.

Skills

Frontend	Angular 2+ (v10 & v17), Typescript, GraphQL, Apollo client, ReactJS (basics)
Backend	Spring Boot, Java 17, NodeJS, Golang, Python, Bash, Docker, Docker-compose, RHPAM (RedHat JBPM), AWS Cognito, AWS Step Functions, AWS Lambda
Database	Oracle SQL, JDBC, JPA, MongoDB, Neo4J
QA	UI testing automation (Selenium & Extent Reports), API Testing automation (Robot Framework)
Others	GIT, GitLab, Bash, SSH, TensorFlow (basics), SSH, JIRA

Languages

English	Fluent
Spanish	Native

Experience

- 2023–2024 **Senior Software Engineer, CAPGEMINI (for Verizon)**, Remote
- Gathered requirements and designed and implemented a service to fetch import data from upstream services into the platform.
 - Implemented backend features **Python, SQLAlchemy, Java, Hibernate, SpringBoot & Oracle SQL**.
 - Developed UI features **ReactJS**.
 - Conducted UI automation testing **Selenium & Extent Reports**.
 - Performed API automation testing **Robot Framework & Python**.
- 2023–2024 **Senior Software Engineer, CAPGEMINI (multiple projects for Verizon)**, Remote
- Collaborated with Product Owners to gather requirements and develop features to enhance an inventory report platform.
 - Implemented backend features **SpringBoot, JDBC, Java17, Mockito, & Oracle SQL**.
 - Developed UI features **ReactJS**.
 - Conducted UI automation testing **Selenium & Extent Reports**.
 - Performed API automation testing **Robot Framework & Python**.
- May–July 2023 **Senior Software Engineer, CAPGEMINI (for Verizon)**, Remote
- Co-designed and co-implemented a YAML based provisioning workflow engine **Temporal IO Python SDK, FASTAPI, Cassandra, Docker, Kafka**.
 - Designed and implemented frontend for the workflow engine **Angular 16, WebSocket**.
- 2022–2023 **Senior Software Engineer, CAPGEMINI (for Verizon)**, Remote
- Discussed requirements with Product Owners for extending the role-based access control (**RBAC**) framework.
 - Co-architected and implemented the second round of RBAC framework changes for the platform.
 - Extended the RBAC framework **SpringBoot, MongoDB, & JSONPath**.
 - Fixed bugs in the initial RBAC framework implementation.
 - Enhanced and fixed bugs in the portal tooltip framework **Angular 10 & MongoDB**.

- 2019–2022 **Senior Software Engineer, INFOSTRIDE (for Verizon)**, Onsite, Remote
- Developed a VNF onboarding portal **Angular 10**.
 - Implemented the onboarding backend service **Java, SpringBoot, Oracle SQL, JDBC**.
 - Added POJO Unit cases **JUnit & Mockito**.
 - Fixed bugs in the existing platform **SpringBoot, SQL, & JDBC**.
 - Contributed to UI development of the equipment onboarding platform **Angular 10, Docker, & docker-compose**.
 - Provided the infrastructure team scripts for the CI/CD pipelines **Make, Golang, & Bash**.
 - Conducted onsite functional testing of new UIs and micro-frontend architectures **Angular 10, Robot Framework, & Python**.
 - Extended filtering functionalities in the platform portal **Angular 10, SpringBoot, JDBC, & Oracle SQL**.
 - Gathered technical requirements and collaborated with Product Owners to extend Day0/Day1 Automation flows for several virtual network functions (VNFs).
 - Implemented Day1 Automation Flows **RHPAM (RedHat PAM)**.
 - Extended Day0/Day1 Automation flows **RHPAM, SpringBoot, JDBC, & Oracle SQL**.
 - Served as Dev POC for User Acceptance Testing (UAT) certification for the Day0/Day1 development cycle.
 - Implemented Acceptance Tests for Day0/Day1 **Python & Robot Framework**.
 - Gathered technical requirements and collaborated with Product Owners for migrating several VNFs from CLI to YANG.
 - Coded the YANG migration service for several VNFs **RHPAM, SpringBoot, JDBC, & Oracle SQL**.
 - Served as Dev POC for YANG migration UAT certification.
 - Implemented UAT Acceptance tests for the YANG migration **Python & Robot Framework**.
 - Worked closely with the Production Support team to resolve production issues.

Education

- 2005–2010 **Bachelor of Science, Higher Institute of Technologies and Applied Sciences**, Havana - Cuba, *Meteorology*
- Grade: 4.63 out of 5.0 **3.704 GPA equivalent**
- Graduate Thesis: Forecast of hail fall over Cuba using an Artificial Neural Network. The model trained was a two-densely connected Multilayer Perceptron which used three meteorological predictors in the input layer. It achieved an **87% accuracy during inference**, the **machine learning** framework used was **Weka**.
- 2016–2018 **Certification, Dallas Community College**, Dallas - Texas, *Software Programmer/Developer Assistant Certification*
- Grade: **GPA 3.88**. Transcripts available upon request.
- I managed the team projects of the **ASP.NET** course, which allowed me to get familiarized with **Azure DevOps** and to assist some classmates that had little or no previous programming experience.
- Relevant courses: Programming Logic and Design, Foundations of Networking Technology, **Introduction to C++ Programming, MSSQL w/Transact-SQL, Introduction to C# Programming, & ASP.NET Programming**.

Certifications

DVA-C02 ○ [AWS Certified Developer - Associate](#) 🔗

Courses

- Online ○ [GraphQL certification](#) 🔗
courses ○ [Building Modern Java Applications on AWS](#) 🔗
○ [Introduction to TensorFlow for Artificial Intelligence, Machine Learning, and Deep Learning](#) 🔗
○ [AI For Everyone](#) 🔗
○ [Natural Language Processing in TensorFlow](#) 🔗
○ [Convolutional Neural Networks in TensorFlow](#) 🔗

Portfolio & Demo Sites

Job board Job board demo site 🔗. The site uses synthetic data for the job posts. The first time the user logs in using google credentials, a company name and description are generated using a Large Language Model **LLM** invoked via **LangChain**. Frontend (**Angular 18, OAuth2**), Backend (**NodeJS, Express, GraphQL, LangChain**)

References

Available upon request.