

Samuel Fonseca

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Summary — Experienced full-stack developer with over 5 years of expertise in designing and implementing scalable, high-performance solutions for global industry leaders such as Samsung and Motorola. Skilled in optimizing cloud infrastructure costs, modernizing legacy systems, and enhancing team efficiency through mentorship and technical leadership. Proficient in cutting-edge technologies, including cloud-native architectures, REST APIs, and machine learning, with a strong focus on delivering impactful, user-centered software solutions. Recognized with a 2023 award for exceeding expectations and driving significant innovation at Eldorado. Passionate about contributing to high-performing teams and creating value for organizations worldwide.

Skills

Languages Java, Kotlin, Javascript/Typescript, Python
Backend Spring boot, Node.js/Express.js/NestJs, Flask
Frontend React/Next.js, Angular
Databases SQL, NoSQL, Cache

DevOps CI/CD, Docker, Kubernetes
Cloud AWS, GCP
Others Machine Learning, Scalable Architecture

Experience

ELDORADO

Oct 2021 – Present

Senior Full Stack Developer

Apr, 2024 – Present

- Same activities as a Mid-Level Full Stack Developer;
- I created a CI/CD pipeline, reducing the deployment time that was previously done manually;
- I migrated the frontend from AngularJs to Angular, modernizing the system;
- Reduced Google Cloud costs around USD\$2000 per month by optimizing cloud infrastructure and cloud storage;
- Led the writing of the experience report article about the new backend architecture;
- Mentor of two interns, promoting technical and professional development through strategic challenges, resulting in notable improvements in the mentees' skills and direct contributions to the success of the project;
- Active participation in the technical interview process, collaborating in the identification and hiring of key talent;

Mid-Level Full Stack Developer

Oct, 2021 – Apr, 2024

- Development of new features for Motorola's user trial systems and Motorola android devices control system. Maintenance of these systems, directly and positively impacting tens of thousands of people around the world who work for Motorola. Also, generating indirect and positive impact for end users who purchase Android products from Motorola;
- Responsible for providing technical support and consultancy for teams that need to integrate or communicate with systems under my management, ensuring efficiency in integration and technical alignment between the parties;
- Implemented a new backend architecture based on Clean Architecture and Domain-Driven Design, achieving superior scalability;
- Reduced Google Cloud costs by 40% for cloud storage by optimizing the life cycle of objects;
- Increased test coverage to 90%, ensuring higher system reliability;
- I received an award from the company as one of the highlights of the year 2023 for a non-standard contribution;

SIDIA

Jan, 2020 – Oct, 2021

Junior Full Stack Developer

Jul, 2020 – Oct, 2021

- Same activities as an intern;
- Greater participation in the automation of the IMS team, creating several services that are useful daily for the team, ensuring higher quality in software maintenance, reducing human error rates, and bringing great savings in day-to-day time;
- Responsible for changing the architecture of the back-end system, thus making the application scalable, improving performance by 30%. The principles of SOLID, DDD, and TDD were used in the new architecture;
- Pioneered the frontend migration from Angular to React, aligning the tech stack with market trends;
- First on the team to add machine learning to automation, reducing human errors and accelerating deliveries. Also, first on the team to conduct research and write articles;

Intern

Jan, 2020 – Jul, 2020

- I participated in the development of the automation responsible for maintaining the IP Multimedia Subsystem (IMS) package of Samsung's Android system software;
- Automation was implemented by a system that contains:
 - A back-end developed in flask/python;
 - A front-end developed in angular/typescript;

Education

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| Federal University of Amazonas <i>Bachelor of Computer Engineering</i> | Mar, 2017 – Aug, 2021 |
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Certifications

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| Amazon Web Services Training and Certification <i>AWS Certified Developer – Associate</i> | Jun, 2024 – Jun, 2027 |
| Amazon Web Services Training and Certification <i>AWS Certified Solutions Architect – Associate</i> | Mar, 2025 – Mar, 2028 |

Languages

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| English | Professional working proficiency |
| Portuguese | Native speaker |

Selected research papers

Migrating Legacy Systems: An experience report on the industrial environment

This case study documents the end-to-end journey of migrating from a legacy environment to cutting-edge technologies. It provides a comprehensive timeline of the migration process, highlighting key technical and business challenges encountered along the way. The report also shares valuable lessons learned, detailing how obstacles were overcome and strategies refined. Finally, it showcases the results achieved, both from technical and business perspectives, underscoring the tangible benefits realized after the migration’s successful completion.

Automatically Deciding on the Integration of Commits Based on Their Descriptions

An intelligent NLP-based approach designed to evaluate the suitability of commit integration into a given software release solely based on their textual descriptions. Experimental results demonstrated an impressive accuracy rate of 92.9%, highlighting the method’s effectiveness in streamlining integration decisions.

Interests

Exploring advancements in AI
Cloud-native technologies
Microservices