

Innovative and results-driven full-stack software developer. Proven track record in enhancing user experiences, optimizing application performance, and implementing scalable architectures. Adept at driving continuous improvement in dynamic environments.

Technologies and Languages

- Languages: Java, Python, TypeScript, JavaScript, Go, C#
- Technologies: AWS, Quarkus, Postgres, Angular, React, Terraform, Kubernetes, Github Actions
- Other: Git, Jest, JUnit, Cypress, Figma, Communication skills

Work Experience

Software Developer	Critical Techworks	Sep 2022–Present
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Leveraging collaborative efforts and domain expertise. My diverse skill set and commitment to excellence have enabled me to contribute successfully to various aspects of projects, including:

- Elevated product value by consistently delivering new features, optimizing codebases using industry-standard design patterns, maintaining multiple microservices in production, and providing direct customer support to ensure product functionality and scalability.
- Orchestrated migration of microservices to **Quarkus**, reducing costs, improving availability, and overall system efficiency.
- Boosted user retention and engagement, by designing and implementing a high available real-time notification system, leveraging multiple decoupled and scalable systems for personalized notifications.
- Developed and maintained infrastructure using **AWS** and **Terraform**, optimizing resource allocation and ensuring scalability and availability. Created custom **AWS CloudWatch Alarms** and **Lambdas**, enhancing application observability.
- Implemented unit tests with **Jest** and end-to-end tests with **Cypress** on the front-end, and used **JUnit** on the back-end fostering a test-driven development approach and ensuring code integrity and reliability.
- Led the migration of microservices' Jenkins pipelines to **GitHub Actions**, improving deployment processes by automating previously manual tasks, enhancing development workflow.

Software Developer Intern	Critical Techworks	Feb 2022–Sep 2022
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Engaged in continuous learning and contributed domain knowledge. Initiated and led efforts to optimize user experience through comprehensive technical enhancements:

- Implemented front-end techniques including code splitting and lazy loading in Angular to enhance initial loading time.
- Improved backend response times by enhancing existing queries, adding indexes to frequently accessed tables, and implementing in-memory service cache for frequently accessed endpoints or queries.
- Leveraged Lighthouse reports to fine-tune and validate front-end performance improvements.
- Developed stress tests to validate and measure back-end solution efficacy.

IT Department Coordinator	ISEP Informatics Student Center	2022
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- Steered the IT department, overseeing operations and supporting academic and administrative needs.
- Managed development team, streamlined workflows, and upgraded tech stack to enhance project efficiency.
- Provided mentorship and continuous feedback to team members, promoting professional growth.

Education and Certifications

- **AWS Solutions Architect Associate**, Amazon Web Services (AWS). **May 2024**
- **AWS Certified Cloud Practitioner**, Amazon Web Services (AWS). **Jan 2024**
- **B.Sc. Informatics Engineering**, Superior Institute of Engineering of Porto (ISEP), Porto. **2019–2022**

Projects

- **E-Learning Platform - AntiRecurso**: Open source learning platform that provided users with real-world exams for diverse subjects from Informatics Engineering course. Used Next.js and Tailwind to develop new features, for example: dynamic graphical representation of the students' grades.
- **Real Time Notification System**: Implemented a scalable, event-driven architecture proof of concept using Angular, Quarkus, and Kafka. Demonstrated real-time notifications and asynchronous messaging capabilities.
- **Aquapharma**: Implemented and deployed a responsive website using NextJs and Tailwind to showcase a health company portfolio and facilitate user contact submissions.