Caio Duarte

Full-Stack Software Engineer

Rio de Janeiro, Brazil

+55 (21) 99129 7994
l3q5@proton.me
Caio Duarte
Caio Duarte

RELEVANT EXPERIENCE

Full Stack Engineer   2022 —
Deal Technologies

Collaborated with three distinct clients to deliver tailored solutions.

1. *B3 - Bolsa Brasil Balcão*
   - Spearheaded the end-to-end development of a new, Unified Registry System for Brazil's national stock exchange, architecting a modern and efficient platform from the ground up.
   - Engineered the system using Angular on the front-end and Java on the back-end, resulting in a 40% reduction in system downtime and more than 2x the performance.
   - The Unified Registry System is now the backbone of Brazil's only stock exchange, and is where companies and users manage and log vital changes and transactions.
2. *Veloe*
   - Maintained and expanded the codebase that powers the whole of Brazil's toll tags, ensuring its seamless operation for millions of users across the country.
   - Developed new AI implementations to enhance the license plate recognition system, resulting in a 50% increase in accuracy.
3. *Banco BV*
   - Drove the creation of an innovative new app for solar panel financing and acquisition with the BVLab team, which is projected to increase new client acquisition by 15% in the first year.
   - Authored comprehensive documentation on development processes and challenges, establishing a knowledge base that is expected to accelerate future project timelines significantly.

Full Stack Engineer   2021 — 2022
360 Global Technology

Developed my front and back-end skills on a variety of different projects.

- Developed and deployed a variety of web applications, including dynamic landing pages, high-traffic streaming platforms, and feature-rich e-commerce sites.
- Managed the complete project lifecycle, from initial planning and requirements gathering to final deployment on Linux servers, consistently delivering projects ahead of schedule.
- Enhanced performance by implementing modern web development technologies and frameworks like Node.js and React.js and cloud-based solutions like AWS and Azure.
- Built and integrated RESTful APIs to support seamless data flow between the front-end and back-end systems.

Full Stack Engineer   2020 — 2021
Elisyum LTDA

Gained experience working with a large company and of the inner workings of conventional financial operations.

- Architected and implemented a large-scale, interconnected e-commerce platform with a comprehensive administration dashboard, featuring advanced financial management and treasury systems.
- Developed a bespoke, first-party payment processing system from scratch, which successfully processed over $500,000 in transactions within the first six months.
- Contributed to a 30% increase in operational efficiency by automating the financial reporting system within the administration dashboard.

FORMAL EDUCATION

Bachelor of Science   2021 — 2025
Universidade Federal Fluminense

Computer Science.

Associate of Science   2018 — 2020
Colégio Pedro II

Systems Analysis and Development.

Certificate   2022 — 2022
University of Helsinki

Full Stack Open

Certificate   2024 — 2024
Harvard University

CS50x

Certificate   2024 — 2024
Harvard University

CS50's Introduction to Programming with Python

Certificate   2024 — 2024
Harvard University

CS50's Web Programming with Python and JavaScript

Certificate   2025 — 2025
Harvard University

CS50's Introduction to Artificial Intelligence with Python

KEY SKILLS

Fundamentals – Agile(SCRUM/Kanban), Git, AWS, Azure, SEO, CDNs, OOP, APIs(GraphQL, REST, SOAP).

DevOps – Linux, Jenkins, Azure DevOps, GitHub Actions, Docker, Kubernetes, Apache, nginx, monitoring and logging tools.

Back-end – Python(Django, FastAPI), Node.js(Express.js, NestJS), Kafka, PostgreSQL, MySQL, Firebase, MongoDB.

Front-end – HTML/CSS, Bootstrap, TailwindCSS, Sass, Javascript, Typescript, Angular, React.js(Next.js), Redux.

Human Languages – Portuguese (Native), English (Fluent - C2), Spanish (Basic - A2).