

CAIO VALENTE

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Summary

Computer engineer specialised in backend development and site reliability seeking a remote role starting in January 2025. With an engineering degree from IMT Atlantique and over four years of experience in building and maintaining distributed systems using Elixir/Erlang, I excel in developing scalable, maintainable software; implementing DevOps practices; and ensuring the reliability of Linux cloud infrastructures.

Skills

Elixir, Ruby, Erlang/OTP, Python, Javascript, C, SQL, Functional Programming, Microservices, Linux, DevOps, CI/CD, GitLab, NGINX, HAProxy, Chef, IaC, SaaS, PaaS, Computer Networks, LXC, Git, Jenkins, Riak key-value, PostgreSQL, Godot, Unity, Agile.

Experience

Tecgraf Institute (PUC-Rio) @ Rio de Janeiro, Brazil

R&D Software Developer (C++, Lua, OpenGL)

Jun 2023 - Apr 2024 (1 year)

- Developed an oil reservoir 3D visualisation and flow simulation application for a leading oil & gas customer.

Kbrw @ Paris, France

Senior Full Stack Developer (Elixir, React.js)

Oct 2021 - Sep 2022 (1 year)

- Developed a distributed Warehouse Management System (WMS) for a supermarket chain with over 800 stores.
- Participated in the full development cycle, building frontends, backends and databases using Elixir, React.js and Riak.
- Boosted customer satisfaction by allowing them to independently manage their users, machines, and services in the company's platform through dedicated portals.
- Built robust and scalable management systems (OMS/WMS) for major clients in the supply chain and logistics sectors.

Site Reliability Engineer (Elixir, Ruby) • remote

Mar 2019 - Sep 2021 (2.5 years)

- Assisted Kbrw's rapid growth by scaling its cloud from 30 to 230 Ubuntu servers, hosting over 3,000 Elixir microservices.
- Reduced network failure detection time to under 5 minutes by building an Elixir P2P server monitoring/alerting tool.
- Improved incident handling procedures by implementing a company-wide 24/7 on-call system.
- Sped up and automatised server installation process, reducing installation time from 4 hours to 20 minutes.
- Improved Kbrw's cloud platform by managing and automating its services using the Chef IaC tool (Ruby).
- Oversaw platform services, such as: API Gateways, load balancers, file storage, VPNs, DNS, GitLab, Jenkins, Syslog, VoIP.
- Keywords: Ubuntu Linux, LXC, OVH, HAProxy, NGINX, asterisk, Bash, Python, Git, Systemd, Let's Encrypt.

Full Stack Developer (Elixir, React.js)

Mar 2018 - Feb 2019 (1 year)

- Helped design and craft a new Order Management System (OMS) for a leading international tyre manufacturer.
- Collaborated with international Salesforce teams to seamlessly integrate diverse third-party services into the new OMS.
- Improved Kbrw's SaaS platform tailored for e-commerce using Elixir and Erlang/OTP tools such as Plug, Cowboy and ETS.
- Keywords: Agile methodology, React.js, PostgreSQL, Riak NoSQL key-value databases, Jenkins, GitLab, RESTful APIs.

Apple Developer Academy (LES - PUC-Rio) @ Rio de Janeiro, Brazil

Full Stack Developer Intern (iOS, Swift)

Jan 2016 - Jun 2016 (6 months)

- Conceived solutions for iPhone, Apple Watch and Apple TV using iOS SDK tools and the Swift language.

Minds at Work (CPTI - PUC-Rio) @ Rio de Janeiro, Brazil

Software Developer Intern (Java, Python)

Sep 2014 - Jan 2016 (1.5 year)

- Developed software for inspection and monitoring of oil & gas pipelines and facilities for Petrobras.
- Keywords: OpenSuse Linux, Java, Python, Qt, Groovy, Tomcat, Oracle SQL database, Jira, Scum, Kanban.

Education

Pontifícia Universidade Católica do Rio de Janeiro (PUC-Rio)

Rio de Janeiro, Brazil

MSc in Computer Graphics

2023 - 2024

- Coursework: Ray Tracing, Vulkan, computational geometry, game development (Godot, Three.js). [\[more\]](#)

IMT Atlantique (former Télécom Bretagne)

Brest, France

MSc in Telecommunications Engineering

2016 - 2019

- Conclusion Project: "Contributing to The Tor Project: improving the IPv6 Support". [\[more\]](#)

Pontifícia Universidade Católica do Rio de Janeiro (PUC-Rio)

Rio de Janeiro, Brazil

BSc in Computer Engineering

2013 - 2019

- Monitor and private tutor of programming and data structures in C language for 2 years.

Languages

Portuguese: native • English: proficient (C2) • French: proficient (C2) • Spanish: intermediate (B1)