

Luiz Viana

Software Developer

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Languages: English (Advanced), Portuguese (Fluent/Native)

Summary Results-driven Software Developer with over 11 years of postgraduate experience designing and deploying scalable backend systems using Clojure, Java, Rust, and AWS. Specialized in functional programming, microservices, and DeFi smart contracts, with a track record of delivering robust solutions at Amazon and innovative startups.

Skills

- **Programming:** Clojure, Java, Rust, Python, JavaScript, TypeScript, Haskell
- **Tools:** AWS (CDK, S3, IAM, SQS, ECS, Step Functions), PostgreSQL, Node.js, Re-Frame, Metabase, Pandas, Streamlit
- **Domains:** Backend Development, Functional Programming, Algorithm Design, Database Architecture
- **Collaboration:** Remote Team Coordination (Slack, Jira, Git, GitHub), Agile Methodologies

Professional Experience

Independent Personal Projects

Personal Finances

Sep 2024 – Present

- Designed and deployed financial models using Python, Pandas, Metabase and Streamlit improving investment decision accuracy.
- Optimized SQL queries on PostgreSQL for real-time BI dashboards, enhancing data retrieval efficiency.

Software Development Engineer I

Amazon, Remote

Sep 2022 – Sep 2024

- Built and maintained microservice features for invoice issuance in Java and Python, focusing on codebase quality and test coverage.
- Deployed Infrastructure as Code with AWS CDK, streamlining AWS service integrations.

Smart Contract Developer

Dy.Finance, Remote

Nov 2021 – Sep 2022

- Authored Web3 DeFi smart contracts on Stacks Blockchain using Clarity.
- Implemented fixed-point arithmetic models in Clarity for derivative asset valuation, improving accuracy.

Clojure Backend Developer

Reify Health & Flexiana, Remote (Concurrent Contracts)

Jul 2021 – Nov 2021

- Designed document management and user tracking systems using Clojure, PostgreSQL, and AWS S3 and AWS IAM.
- Optimized database schemas, enhancing query performance for job application platforms.

Software Developer

Environment Ministry of Ceará, Fortaleza, Brazil

Jan 2021 – Jun 2021

- Created a WebGIS application with JavaScript, OpenLayers, and PostGIS, enabling geospatial data analysis.

Professor / Researcher

Federal University of Ceará, Russas, Brazil

Jul 2016 – Mar 2022

- Taught Algorithm Design and Functional Programming, mentoring students in Combinatorial Optimization.
- Built a concurrent Branch-and-Bound framework in Rust, optimizing combinatorial solutions.

Education

M.Sc., Computer Science

Federal University of Ceará, Fortaleza, Brazil

2014 – 2016

- Thesis: Two Dependency Constrained Spanning Tree Problems, with models developed in Python and IBM CPLEX, developing efficient algorithms for network optimization.
- Relevant Coursework: Algorithm Design, Combinatorial Optimization, Functional Programming.

B.Sc., Computer Science

Federal University of Ceará, Fortaleza, Brazil

2010 – 2014