Daniel Guedes

Senior Software Engineer

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Professional Summary

Senior Software Engineer with 7+ years of experience building scalable applications serving millions of users across diverse industries including finance, healthcare, automotive, and education. Proven track record of leading technical initiatives, mentoring development teams, and delivering high-impact solutions that drive business growth.

Strong background in full-stack development, cloud architecture, and modern DevOps practices. Experienced in cross-team collaboration and implementing observability solutions that improved system reliability and performance.

Technical Expertise

Frontend Development

- **Languages:** JavaScript/TypeScript (ES6+), HTML5, CSS3/SASS
- **Frameworks:** React, Next.js, Angular 2+/AngularJS
- **Tools:** Tailwind CSS, Material-UI, Storybook, Figma
- **Specializations:** SEO optimization, accessibility (A11Y), responsive design

Backend Development

- **Languages:** Node.js, Python, Golang, Ruby (Rails), Lua, C
- **Frameworks:** Express.js, Ruby on Rails, FastAPI
- **Architecture:** RESTful APIs, GraphQL, Microservices, Serverless, Monoliths
- **AI/ML:** RAG pipelines, LLM integration, document/video processing

Databases & Storage

- **SQL:** PostgreSQL, MySQL, SQLite, Oracle DB
- **NoSQL:** MongoDB, Redis, DynamoDB, DocumentDB, ElasticSearch
- **Data Warehousing:** Amazon Redshift
- **Optimization:** Query performance tuning, database migrations

Cloud & Infrastructure

- **Platforms:** AWS (Lambda, EC2, S3, RDS, SQS, CloudFront, Eventbridge, etc), GCP
- **DevOps:** Docker, Kubernetes, Jenkins, GitHub Actions, Terraform, SonarQube
- **Monitoring:** New Relic, CloudWatch
- **Testing:** Jest, Cypress, Playwright, Ghost Inspector, pytest

Development Practices

- **Methodologies:** Agile, Scrum, Kanban, TDD, BDD, Event-Driven Architecture
- **Tools:** Git, Jira, Confluence, Slack
- **Observability:** Telemetry implementation, metrics gathering, alerting systems, webhooks

Professional Experience

Senior Software Engineer | Varsity Tutors, a Nerdy Company

September 2023 - April 2025 | Remote, United States

Led development of high-scale educational applications serving millions of users monthly. Drove technical initiatives in AI/ML integration, observability, system reliability, marketing, UX and checkout.

Key Achievements:

- Implemented RAG pipeline for tutoring transcription processing, achieving 10%+ increase in user interaction
- Led self-checkout improvement project, reducing payment processing failures to near 0%
- Pioneered E2E testing adoption across existing and new features, improving system reliability
- Established centralized documentation and metrics gathering processes for engineering team
- Mentored developers on code quality, architecture decisions, and best practices

Technical Contributions:

- Architected and developed AI-powered features using Python, AWS services, and React

- Built lead processing internal application using React/Next.js with comprehensive testing suite
- Implemented observability solutions using New Relic, Redshift, and custom metrics tools
- Maintained production systems with on-call responsibilities and proactive monitoring on multiple teams

Technologies: React, Next.js, Node.js, Python, Golang, Ruby on Rails, AWS (Lambda, Kubernetes, EC2), GraphQL, New Relic, Lua, Redis, PostgreSQL, DynamoDB and others.

Senior Software Engineer | Arionkoder

March 2022 - September 2023 | Remote

Provided software development services to Toyota USA and internally, developing for applications serving millions of monthly requests on toyota USA infrastructure.

Key Achievements:

- Successfully executed MySQL Aurora migration (5.7 to 8.0) with zero downtime for end users
- Maintained and developed for production systems processing millions of requests monthly
- Proposed cost savings in thousands of dollars monthly through database optimization
- Conducted technical interviews and lead an internal group of NodeJS developers

Technical Contributions:

- Developed serverless backend solutions using AWS Lambda, RDS, S3, SQS and NodeJS
- Built custom CSV data processing pipeline with automated validation and error handling
- Optimized database performance and implemented comprehensive monitoring solutions
- Created technical documentation and reference materials for development team

Technologies: TypeScript, AWS (Lambda, RDS, S3, SQS, etc), MySQL, Angular 9+, Terraform, Jenkins, DynamoDB

Senior Fullstack Developer | ACT digital

August 2021 - March 2022 | Remote

Led modernization efforts for Moderna USA's internal applications, migrating legacy systems to current technology stack.

Key Achievements:

- Successfully migrated 3 critical applications from AngularJS to Angular 13+
- Implemented reactive programming patterns using RxJS for complex state management
- Delivered migration project spanning multiple quarters with minimal business disruption

Technical Contributions:

- Refactored legacy AngularJS applications to modern Angular framework

- Developed reactive FE architecture solutions following SOLID principles

- Participated in code review processes and helped team members improve code quality

- Built new features and maintained existing Node.js/Express backend services

Technologies: Angular 13+, AngularJS, Node.js, Express.js, PostgreSQL, RxJS, AWS

Frontend Developer | Lumis

October 2020 - August 2021 | Rio de Janeiro, Brazil

Developed web portal solutions for enterprise clients including B3 (Brazilian stock exchange), serving millions of monthly users.

Key Achievements:

- Delivered B3 enterprise client portal with custom CMS integration

- Implemented accessibility improvements and responsive design standards

- Worked across multiple business domains: healthcare, banking and stock market

Technical Contributions:

- Built semantic and accessible HTML pages following modern web standards

- Developed custom frontend solutions using vanilla JavaScript and SASS

- Integrated with Java-based CMS backend systems

- Collaborated with design teams using Figma and Zeplin

Technologies: JavaScript (ES6+), HTML5, CSS3/SASS, Java, jQuery, Gulp, Docker, Oracle DB, MySQL, React

Freelance Web Developer

November 2018 - 2021 | Brazil

Delivered full-stack web solutions for various clients across healthcare, B2B, AI and dashboard applications.

Key Achievements:

- Built responsive web applications using React, Angular and vanilla JS

- Developed automated web crawling solutions using Python and Node.js

- Implemented complete CRUD APIs with authentication and automated procedures

- Deployed applications using AWS EC2, Lambda, and GCP Firebase

Technologies: Angular, React, Node.js, Python, MongoDB, PostgreSQL, AWS, GCP

Education

Postgraduate Degree | Academy Space

Astronomy and Planetary Science | September 2023 - September 2024

Postgraduate Degree | Academy Space

Marketing | September 2023 - September 2024

Postgraduate Degree | Estácio

Computer Software Engineering | April 2021 - March 2022

Bachelor's Degree | Pontifícia Universidade Católica de Minas Gerais

Electrical Engineering | 2016 - 2020

Key Projects

RAG Pipeline | Varsity Tutors

January 2025 - March 2025

- Implemented AI-powered tutoring transcription processing system
- Achieved 10%+ increase in user interaction through A/B testing
- **Technologies:** Python, AWS, React, RAG, LLM integration

Self-checkout Improvements | Varsity Tutors

August 2024 - December 2024

- Led cross-functional team to resolve payment processing issues
- Reduced failure rate from significant percentage to near 0%
- **Technologies:** Next.js, Ruby on Rails, AWS

MySQL Database Migration | arionkoder/Toyota

November 2022 - March 2023

- Executed zero-downtime migration from MySQL 5.7 to 8.0

- Achieved cost savings of thousands of dollars monthly
- **Technologies:** MySQL, TypeScript, AWS, Node.js

Languages

- **Portuguese:** Native
- **English:** Native/Bilingual
- **Spanish:** Professional Working Proficiency
- **French:** Limited Working Proficiency

Certifications

- Introduction to Cybersecurity
- Cybersecurity Essentials
- EF SET Certificate™