Samuel Reda

+1 (510) 434-4294

samuelreda2018@gmail.com — linkedin.com/in/samuel-t-r

github.com/streda   https://stredaweb.dev   https://leetcode.com/u/MyLeetCodePage

Summary

Software Engineer with nearly 3 years of experience building secure, scalable full-stack systems using Java Spring Boot, React.js, PostgreSQL, and AWS. Proven success delivering applications that handled 100+ concurrent users, reduced API latency by 35%, and maintained 99.99% transactional integrity. Strong foundation in RESTful APIs, containerized cloud deployment, CI/CD pipelines, and security protocols. Open to opportunities in any U.S. location and flexible across Associate to Junior-level engineering roles. Eager to contribute to high-growth, fast-paced product teams.

Education

University of California, San Diego (UCSD)   June 2022

Bachelor of Science, Computer Engineering.

Relevant coursework: Java, JavaScript, Data Structures & Algorithms, Software Engineering, Software Tools and Techniques, Web Development, Theory of Computation, Probability, Computer Networks, Computer Security, Computer Operating Systems, Digital Systems, Data Science, Computer Architecture.

Certifications

- **Java Web Developer Nanodegree** — Udacity Verified Certificate of Completion   *July 2025*
  Credential ID: 35da1f10-2c84-11f0-98a6-13c2cce0dc88
  Java Spring Boot: Spring MVC, Servlets, Mybatis, Thymeleaf, Selenium, Mockito
  Web Services and APIs: Graphql, Swagger, REST APIs, Spring security, Microservices
  Data Stores & Persistence: Spring data JPA, Multitier architecture, Hibernate ORM, DAOs & DTOs, SQL scripts, Dependency injection
  Security and DevOps: Docker, Splunk, Logging, CI/CD, Spring Security

Technical Skills

Languages: Java, JavaScript, TypeScript, C++, Python, HTML, CSS
Frontend: React, Hooks, Context API, Tailwind CSS, Material UI
Backend: Spring Boot, Spring MVC, Spring Security, Hibernate, Apache Airflow, Node.js, Express
Databases: PostgreSQL, MongoDB, MySQL, Sequelize, Mongoose
Cloud/DevOps: AWS (EC2, S3, RDS, Lambda, Amplify), Docker, kubernetes, CI/CD, Nginx, Kafka
Testing: Junit, Jest, Mockito, Selenium
Tools: Git, IntelliJ Ultimate, Mavens, Jenkins, VsCode, Figma, Webpack, Agile

Work Experience

Full Satck Software Engineer - Freelance / Contract-Based   Sep 2022 - Current

- **Engineered and deployed secure RESTful APIs:** Developed and deployed secure RESTful APIs using Spring Boot to manage SIM registration workflows for a telecom client, handling over 50,000 user records with 99.99% uptime.
- **Database Design** Designed PostgreSQL schemas and optimized query performance, reducing data retrieval latency by 60%.
- **User-Centric Frontend Development:** Built role-based React.js admin dashboards supporting 3+ access tiers; improved workflow efficiency by 45%.
- **Robust Security Implementation:** Implemented JWT + OAuth2 authentication for protected routes and user sessions with zero known security breaches.

- **DevOps & Cloud Deployment:** Set up CI/CD pipelines with GitHub Actions and Jenkins, reducing deployment time by 90% and increasing release frequency. Dockerized microservices and deployed to AWS EC2 instances with Nginx reverse proxy and monitoring via CloudWatch.

Projects

Bullet Journal Productivity App
Technologies: JavaScript, React, Figma, HTML/CSS, Jest
Team Project — UX Designer & QA Tester

- Designed wireframes and UI flows in Figma that improved task completion by 25% during user testing.
- Executed over 50 test cases, identifying 15+ UI bugs and improving pre-release stability by 90%.
- Conducted user feedback sessions and implemented design changes that raised user satisfaction scores by 30%.

Personal Portfolio Website
Technologies: React, TypeScript, Tailwind CSS, Socket.IO, AWS Amplify

- Attracted over 300+ unique users monthly, with avg. session time of 2+ minutes.
- Built real-time messaging via Socket.IO with sub-100ms latency.
- Deployed using AWS Amplify CI/CD, reducing update time from 10 min to under 1 min.

Task Management Application (PERN Stack)
Technologies: PostgreSQL, Express, React, Node.js, AWS EC2, GitHub Actions

- CRUD app with auth; 100+ daily tasks across 15+ test users.
- Optimized RESTful API, reducing response time by 35%.
- AWS EC2 + Nginx for handling 100+ concurrent users; CI/CD via GitHub Actions.

Restaurant Ordering System
Technologies: Javascript, Node.js, Express, Stripe, JWT, OAuth2, Nginx, Rate Limiting

- Managed 30+ daily transactions with 99.99% success using Stripe.
- Secured user accounts with JWT & OAuth; no unauthorized access during testing.
- Implemented rate limiting; reduced abuse by 90% during peak testing.

E-Commerce Platform (Spring Boot & React)
Technologies: Java Spring Boot, React, PostgreSQL, MyBatis, JWT, JUnit, Selenium

- Engineered a full-stack e-commerce platform supporting 100% authenticated user actions, including registration, login, cart management, and order placement.
- Secured all sensitive operations using JWT-based role-specific access, reducing unauthorized access attempts by 100% in tests.
- Achieved 71%+ code coverage across services and controllers through JUnit unit tests and Selenium end-to-end test suites.
- Optimized API response time for cart operations by 40% using efficient state synchronization and RESTful design patterns.

Genetic AI Multi-Agent Order Fulfillment System
Technologies: Python 3.13, Pydantic-AI, SQLite, SQLAlchemy, Pandas, Mermaid, Git

- Architected an **agentic AI** workflow of four autonomous worker agents (Inventory Manager, Quotation Specialist, Sales Processor, Delivery Scheduler) plus an Orchestrator Agent, each exposing domain logic as "tools" via Pydantic-AI.
- Integrated a SQLite backend and Pandas pipelines to track cash flow, inventory levels, historical quotes, and delivery estimates.
- Built a test harness driving 20 realistic quote scenarios end-to-end: achieved **5+ transactions** that impacted cash balance, **3+ successful quotes**, and graceful handling of out-of-stock failures.
- Delivered clear, customer-facing responses with rationale (stock shortages, discount explanations) while hiding internal errors and PII.