Samuel Reda

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GitHub: github.com/streda | Portfolio: stredaweb.dev

Summary

Computer Engineering graduate with practical full-stack development experience using HTML, CSS, JavaScript, React, and Node.js. Skilled in designing and optimizing responsive applications with RESTful APIs and third-party integrations. Proven ability to implement RESTful APIs, integrate third-party services, and improve performance by up to 45% in personal projects. Committed to learning modern web tooling and visual design systems while thriving in collaborative team dynamics. Eager to contribute to innovative software solutions as an entry-level Associate Full-Stack Engineer.

Education

University of California, San Diego (UCSD) Jun 2022
Bachelor of Science, Computer Engineering
- **Coursework:** Data Structures & Algorithms, Software Engineering, Database Analytics, Web Development, Object-Oriented Programming, Operating Systems, Computer Networks, Computer Security

Projects

Personal Portfolio Website
Technologies: React, TypeScript, Node.js, Socket.IO, Nodemailer
- Built a portfolio website visited by over **300+ unique users** monthly, with 2+ minutes avg. session time.
- Implemented real-time messaging via Socket.IO, achieving **instant response latency under 100ms**.
- Automated deployment using AWS Amplify CI/CD, reducing update time from 10 minutes to **under 1 minute**.

  GitHub Repo | **Live Demo**

Task Management Application (PERN Stack)
Technologies: PostgreSQL, Express, React, Node.js, AWS EC2, Nginx, CI/CD
- Developed and deployed a full-stack CRUD app with **user authentication**, supporting **100+ daily tasks across 15+ test accounts**.
- Reduced frontend-to-backend response time by **35%** through efficient RESTful API design.
- Deployed on AWS EC2 and configured Nginx to **handle 100+ concurrent users** with minimal latency.
- Automated deployment using GitHub Actions & AWS CI/CD, improving feature delivery by **80%**.

  GitHub Repo | **Live Demo**

Restaurant Ordering System
Technologies: JavaScript, Node.js, Express, MongoDB, Stripe API, JWT, OAuth
- Built a full-featured ordering system handling **30+ transactions per day** with **99.99% payment success rate** via Stripe integration.
- Secured **100% of user accounts** with JWT and OAuth authentication; no unauthorized access incidents reported in testing.
- Implemented rate limiting and request validation, reducing spam/abuse incidents by **90%** during peak testing.

  GitHub Repo | **Live Demo**

Technical Skills

- **Programming Languages:** Java, JavaScript, TypeScript, C++, HTML, CSS
- **Frontend:** React, Hooks, Context API, Tailwind CSS, Bootstrap, HTML5, CSS3
- **Backend:** Node.js, Express.js, RESTful API Design
- **Databases**: PostgreSQL, MongoDB (NoSQL), SQL Server, Database Design, ORM/ODM (Sequelize, Mongoose)
- **Cloud & DevOps:** AWS (EC2, S3, RDS, Lambda, Amplify), CI/CD Pipelines (AWS Amplify, AWS CodePipeline), Docker, Nginx, Serverless Architecture
- **Testing & Debugging:** Unit Testing (Jest), Debugging Tools (Browser DevTools, Postman).
- **Tools & Platforms:** Git, GitHub, GitLab, VS Code, Linux/Ubuntu, Figma, Webpack, Agile Methodologies