

## Samuel Reda

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## Summary

Results-oriented Computer Engineering graduate (UCSD, 2022) with hands-on experience designing, developing, and deploying full-stack web applications. Proficient in JavaScript, TypeScript, React, Node.js, and AWS cloud services (EC2, S3, Lambda, Amplify, CI/CD). Proven ability to implement RESTful APIs, integrate third-party services, and optimize application performance. Seeking an entry-level Software Development Engineer or Frontend Engineer role where I can contribute to building robust and user-friendly solutions.

## 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

## Projects

- **Personal Portfolio Website** | Technologies: React, TypeScript, Node.js, Socket.IO, Nodemailer, AWS Amplify, CI/CD
  - Engineered a responsive personal portfolio site using React and TypeScript for the frontend and Node.js for the backend API.
  - Implemented real-time messaging capabilities via Socket.IO and integrated Nodemailer for reliable contact form submissions.
  - Configured and automated deployment using AWS Amplify, establishing a CI/CD pipeline for seamless updates.
  - **[GitHub Repo]** (<https://github.com/streda/personal-portfolio-production>)
  - **[Live Demo]** (<https://stredaweb.dev/>)
- **Task Management Application (PERN Stack)** | Technologies: PostgreSQL, Express, React, Node.js, AWS EC2, Nginx, CI/CD
  - Developed a full-stack task management system featuring user authentication, task creation, and status tracking.
  - Designed and implemented RESTful APIs with Express.js for efficient data handling between frontend and backend.

- Deployed the Node.js backend service on AWS EC2, configuring Nginx as a reverse proxy to optimize request handling and enable potential scaling.
- Established CI/CD pipelines for automated testing and deployment, reducing manual overhead.
- **[GitHub Repo]** (<https://github.com/streda/to-do-list>)
- **[Live Demo]** (<https://mytodolistapps.com/>)
- **[Restaurant Ordering System](#)** | Technologies: Vanilla JavaScript, Node.js, Express, MongoDB, Stripe API, JWT, OAuth
  - Developed a real-time restaurant ordering application supporting menu browsing, dynamic cart management, and secure checkout.
  - Secured user accounts and authenticated sessions using JWT (JSON Web Tokens) and OAuth protocols.
  - Integrated the Stripe API to process payments securely and efficiently.
  - Utilized MongoDB for flexible data storage of orders and user information; implemented backend rate limiting to protect against abuse and ensure performance.
  - **[GitHub Repo]** (<https://github.com/streda/restaurant-app-production>)
  - **[Live Demo]** (<https://truefood.rest/>)

## Education

- **University of California, San Diego (UCSD) | La Jolla, CA**
  - Bachelor of Science in Computer Engineering | **Graduated:** June, 2022
- **Relevant Coursework:** Data Structures & Algorithms, Software Engineering, Database Analytics, Web Development, Object-Oriented Programming, Operating Systems, Computer Networks, Computer Security.