SAMUEL NELSON Software Engineer

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TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Go, SQL, C
Frontend: React, Next.js, React Native, Redux, Tailwind CSS
Backend & Data: Node.js, Express.js, Go (Chi), REST APIs, PostgreSQL, SQLite, MongoDB
Tools & Libraries: Git, GitHub, Passport.js, Postman, Figma, Excel VBA

SOFTWARE DEVELOPMENT EXPERIENCE

Software Engineer – Independent Contractor **Oct 2023 - Present**

- Deliver custom web solutions for clients, translating requirements into responsive, maintainable web apps
- Work directly with stakeholders to define requirements, prioritize features, and deliver production-ready systems
- Build and maintain full-stack applications, APIs, and database systems supporting client business operations and structured data workflows

SELECTED SOFTWARE PROJECTS

Secured Notes Mobile App — Encrypted Notes & Synchronization
React Native · TypeScript · SQLite · Go · Chi · REST APIs

- Developed a cross-platform note-taking application using React Native, TypeScript, and local SQLite persistence
- Implemented client-side authenticated AES encryption for note contents using randomized salts and nonces, with encrypted payloads transmitted to a Go backend for synchronization across devices
- Built a Go Chi REST API to support note synchronization while keeping contents encrypted before transmission

Dodgeball Stat Tracker — Full-Stack PWA Prototype
React · PostgreSQL · Passport.js · REST APIs

- Developed a Progressive Web App prototype for USA Dodgeball for tracking game statistics and tournaments
- Contributed to backend functionality, authentication, administrative features, and third-party API integrations
- Collaborated in an Agile development team, incorporating client feedback to iteratively refine functionality

Mood Music — Full-Stack PWA Prototype
React Native · TypeScript · MongoDB · Express.js · Spotify Web API · REST APIs

- Integrated the Spotify Web API into a TypeScript-based React Native application to support playlist creation
- Built Express.js backend with MongoDB data persistence to manage playlist data and Spotify API communication

ADDITIONAL PROFESSIONAL EXPERIENCE

Executive Accounts Specialist – University of Minnesota **Sep 2024 - Present**

- Automated monthly credit-card reconciliation using Excel VBA, reducing processing time by 83%
- Reduced daily reconciliations from approximately 30 minutes to 10 minutes through VBA automation
- Automated purchase-order expenditure and burn-rate reporting, reducing report preparation from approximately one hour to 10 minutes
- Evaluate and streamline financial workflows, acting as a subject matter expert for purchasing, receivables, and financial data validation

Account Associate – Wells Fargo **Nov 2018 - Feb 2022**

- Managed and analyzed high-volume financial and operational data using internal systems and Excel-based tools
- Investigated data discrepancies and resolved document issues, supporting record accuracy and compliance

EDUCATION

Prime Digital Academy, Full-Stack Software Engineering Certification **Oct 2023**
University of Minnesota, Bachelor of Arts in Political Science — Quantitative Analysis **May 2014**