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Summary

Principal Software Engineer specializing in JavaScript, NodeJS, and MongoDB with extensive experience in designing and developing scalable backend systems and microservices. Proven track record in architecture, API development, software security, Silicon Valley startups, profitable companies, management, and mentoring.

Experience

- presently **Principal Software Engineer** *Cell-Ed*, Palo Alto, CA
Principal architect for key software security functionalities protecting a growing ecosystem of microservices. Design and develop new backend API microservices to extend current capabilities and to lay the foundation for massive scaling projected for 2024 and beyond. Implement solutions with extensive documentation and testing capabilities. Provide sample frontend code to frontend engineers for easy integration of new services. Advise VP of Engineering and VP of Product on technology decisions.
- 2019-2021 **Senior Software Engineer** *FlexGen® Power Systems*, Durham, NC
Developed key software security functionalities for power grid generation and storage stations, high-priority strategic targets for foreign powers and domestic terrorists. Lead engineer for key customer-facing product introductions. Architected new API and database functionalities to meet growing customer requirements. Established JavaScript code consistency practices. Led Full Stack software engineer technical interviews. Mentored new hires. Produced original customer and internal documentation for new software features.
- 2018 to 2019 **Developer** *desmondmullen.com*, Chapel Hill, NC
Developed JavaScript, Node.js, and React applications including a variety of shared messaging apps with leading-edge security components, geolocation, and shared lists.
- 2015 to 2018 **Technology Manager** *Combustion Cycles Ltd*, Durham, NC
Managed daily operations for independent motorcycle service and sales shop. Developed key heuristic solutions for workflow management and load-balancing of customer work.
- 2014 to 2015 **ELF Product Manager, Process Manager** *Organic Transit*, Durham, NC
Led the continuing development of Organic Transit's flagship *ELF* hybrid vehicle. Developed and oversaw processes for vehicle manufacturing, R&D, and design and production changes.

Previous Experience

Created tools in AppleScript (JavaScript's inspiration) in Silicon Valley throughout the 1990s. Over 20 years of experience with HTML and CSS. 10 years of experience with security, MongoDB, and SQL. Completed a six-month boot camp in 2018 to update and consolidate skills, particularly in JavaScript, NodeJS and MongoDB, graduating first in class.

Skills

Languages & Technologies: JavaScript, NodeJS, MongoDB, Express, React, HTML, CSS, SQL, AppleScript

Tools & Platforms: Git, GitHub, MERN stack, Linux, UNIX, REST, HTTP, NPM

Other Skills: Software Security, APIs, UI/UX, Technical Documentation, Mentoring, Technical Interviews, Workflow Management