

ZACK NELSON

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SUMMARY

Full-stack software engineer with hands-on experience in React, FastAPI, and PostgreSQL, building and deploying production-ready web apps and developer tools. Former U.S. Marine, bringing proven ownership, reliability, and disciplined problem-solving to engineering teams.

TECHNICAL SKILLS

Languages:	Python, JavaScript, TypeScript, C++, SQL
Web Development:	React (Vite), FastAPI, Tailwind CSS, Node.js, Axios
Databases:	PostgreSQL, SQLite
Tools & Platforms:	Git, GitHub, Docker (familiar), Render, Vercel, Chart.js
Secret Security Clearance (Inactive):	U.S. Department of Defense

PROJECTS

Job Log	React, FastAPI, PostgreSQL Demo GitHub
<ul style="list-style-type: none">Full-stack job tracker with analytics, tagging, and CSV export; used to manage 150+ job applicationsBuilt secure REST APIs (FastAPI + PostgreSQL) with API key protection, integrated with React frontend via AxiosDelivered responsive, production-ready system with dynamic Chart.js visualizations, filtering, and momentum analytics (deployed on Vercel/Render)	
Commit Companion	Python, OpenAI API GitHub
<ul style="list-style-type: none">Python CLI that generates Git commit messages from staged diffs, improving developer speed and consistency while supporting Conventional Commits, custom formatting, and .env configurationBuilt with Git hook installer and PyPI-ready packaging to support easy local installation and future distribution	
Portfolio Website	React, Tailwind CSS, Vercel Demo GitHub
<ul style="list-style-type: none">Designed and deployed personal portfolio with React + Tailwind, featuring responsive, accessible UI optimized for performance across devicesShowcases live demos, GitHub links, and resume download in a professional, user-friendly format	

EXPERIENCE

Math Tutor	2023 – 2024
<i>Private Tutoring</i>	<i>Santa Rosa, CA</i>
<ul style="list-style-type: none">Tutored high school and college-level math with an emphasis on structured problem-solving and logic, directly strengthening debugging and algorithmic thinking	
Photographer	2018 – Present
<i>Freelance</i>	<i>Santa Rosa, CA</i>
<ul style="list-style-type: none">Operated a freelance photography business, managing workflows and client deliverables, emphasizing technical detail and communication	
Military Police	2013 – 2018
<i>U.S. Marine Corps</i>	<i>Okinawa, Japan & South Carolina</i>
<ul style="list-style-type: none">Led 70 Marines in high-stakes operational environments, fostering team cohesion, accountability, and clear communication, traits now applied to software engineering teamsManaged logistical systems for \$4M+ in assets with zero failures, applying disciplined, process-driven thinking to building reliable, maintainable software systems	

EDUCATION

Bachelor of Science in Computer Science, Magna Cum Laude	GPA: 3.78 Major GPA: 3.96
<i>Sonoma State University, May 2025</i>	<i>Rohnert Park, CA</i>