

ZACK NELSON

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SUMMARY

Full-stack software engineer with experience deploying React, FastAPI, and PostgreSQL applications to production. Built real-world projects, including a job tracker managing 150+ applications and developer tools packaged for PyPI distribution (in progress). Skilled in backend design, responsive UI, and cloud deployment (Render, Vercel). Former U.S. Marine with proven leadership and disciplined problem-solving.

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, C++, SQL
Frontend: React (Vite), Tailwind CSS
Backend: FastAPI, Node.js
Databases: PostgreSQL, SQLite
DevOps & Tools: Docker, Git, GitHub, Render, Vercel
Other: Axios, Chart.js
Clearance: Secret Security Clearance (Inactive, U.S. DoD)

PROJECTS

- Job Log** React, FastAPI, PostgreSQL | [Demo](#) | [GitHub](#)
- Built and deployed a full-stack job tracker used to manage 150+ applications, adding analytics, tagging, and CSV export
 - Engineered secure REST APIs with FastAPI + PostgreSQL, integrated with React via Axios
 - Launched on Vercel/Render with Chart.js dashboards, filtering, and analytics
- Commit Companion** Python, OpenAI API | [GitHub](#)
- Developed a Python CLI to auto-generate Git commit messages, improving developer speed and consistency
 - Packaged with Git hook installer and prepared for PyPI distribution (in progress)
- Portfolio Website** React, Tailwind CSS, Vercel | [Demo](#) | [GitHub](#)
- Designed and deployed a responsive React + Tailwind portfolio optimized for accessibility and performance
 - Showcased live demos, GitHub projects, and resume download for recruiters

EXPERIENCE

- Math Tutor** 2023 – 2024
Private Tutoring Santa Rosa, CA
- Tutored 10+ students in math, reinforcing structured problem-solving and algorithmic thinking relevant to debugging and coding
- Photographer** 2018 – Present
Freelance Santa Rosa, CA
- Managed a photography business serving 45+ clients, overseeing technical workflows and client deliverables with precision and clear communication
- Military Police** 2013 – 2018
U.S. Marine Corps Okinawa, Japan & South Carolina
- Led 70 Marines in operational environments, fostering accountability, teamwork, and clear communication, skills directly applied to engineering teams
 - Managed logistical systems for \$4M+ assets with zero failures, applying disciplined, process-driven thinking to reliable system design

EDUCATION

Bachelor of Science (BS) in Computer Science, Magna Cum Laude GPA: 3.78 | Major GPA: 3.96
Sonoma State University, May 2025 Rohnert Park, CA