# 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

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|---|---|
| **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 (automated CI/CD workflows) |
| **Other:** | Axios, Chart.js |
| **Clearance:** | Secret Security Clearance (Inactive, U.S. DoD) |

## PROJECTS

**Job Log**                                        **React, FastAPI, PostgreSQL** | [Demo](Demo) | [GitHub](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](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](Demo) | [GitHub](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*