ZACK NELSON

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SUMMARY

Full-stack software engineer with experience deploying React, FastAPI, and PostgreSQL applications to production and publishing developer tools on PyPI. Former U.S. Marine bringing proven leadership and disciplined problem-solving to engineering teams.

TECHNICAL SKILLS

Languages:	Python, JavaScript, TypeScript, C++, SQL, HTML, CSS
Frontend:	React (Vite), Tailwind CSS
Backend:	FastAPI, Node.js, REST APIs
Databases:	PostgreSQL, SQLite
DevOps & Tools:	Docker, Git, GitHub, Render, Vercel (automated CI/CD workflows)
Other:	Axios, Chart.js, AWS (CCP certification in progress)
Clearance:	Secret Security Clearance (Inactive, U.S. DoD)

PROJECTS

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

- Built and deployed a full-stack job tracker managing 200+ applications, simplifying job search tracking with analytics, tagging, CSV export, and progress insights for greater efficiency
- Engineered secure REST APIs with FastAPI + PostgreSQL, integrated with React via Axios and validated with Pytest for reliable, scalable, and maintainable data exchange
- Designed and indexed a normalized PostgreSQL schema, improving query efficiency for large datasets
- Deployed on Vercel/Render with automated CI/CD, delivering Chart.js dashboards and iterating in Agile sprints

Commit Companion — Python, OpenAI API | **[PyPI]** | **[GitHub]**

- Published a Python CLI on PyPI that auto-generates Git commit messages from diffs with GPT, with 1000+ downloads, reducing developer time spent on commits and improving consistency across projects
- Packaged with Flit and Git hook installer, enabling seamless adoption while following modern Python packaging and versioning practices for maintainability

Portfolio Website — React, Tailwind CSS, Vercel | **[Demo]** | **[GitHub]**

- Designed and deployed a responsive portfolio with modern React + Tailwind practices, achieving near-perfect Google Lighthouse scores (100 Performance, 95 Accessibility, 100 Best Practices, 100 SEO)
- Showcased live demos, GitHub projects, and a downloadable resume to streamline recruiter access and highlight technical skills

EXPERIENCE

Math Tutor — 2023 – 2024
Private Tutoring — *Santa Rosa, CA*

- Tutored 10+ students across algebra and calculus, delivering 100+ hours of instruction and driving consistent grade improvements through structured problem-solving and algorithmic thinking

Military Police — 2013 – 2018
U.S. Marine Corps — *Okinawa, Japan & South Carolina*

- Led and mentored 70 Marines with zero mission failures, fostering accountability, teamwork, and communication in high-pressure environments directly applied to engineering teams
- Managed logistical systems safeguarding $4M+ in assets with 100% accountability over 5 years through disciplined, process-driven operations and 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*