

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 150+ 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 640+ 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*