

ZACK NELSON

Santa Rosa, CA | 707-360-8837 | zacknelson15@gmail.com
zacknelson.dev | linkedin.com/in/nelsonzack | github.com/nelson-zack

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 published on PyPI. 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 (automated CI/CD workflows)
Other:	Axios, Chart.js
Clearance:	Secret Security Clearance (Inactive, U.S. DoD)

PROJECTS

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|---|--|
| Job Log | React, FastAPI, PostgreSQL Demo GitHub |
| <ul style="list-style-type: none">– Built and deployed a full-stack job tracker managing 150+ applications, with analytics, tagging, and CSV export– Engineered secure REST APIs with FastAPI + PostgreSQL, React integration via Axios, and unit tests (Pytest)– Designed normalized PostgreSQL schema with indexing for efficient queries– Deployed on Vercel/Render with Chart.js dashboards and Agile-style iterations | |
| Commit Companion | Python, OpenAI API PyPI GitHub |
| <ul style="list-style-type: none">– Published a Python CLI on PyPI to auto-generate Git commit messages with GPT, improving developer speed and consistency– Packaged with Flit and Git hook installer, using modern Python structure and versioning best practices | |
| Portfolio Website | React, Tailwind CSS, Vercel Demo GitHub |
| <ul style="list-style-type: none">– Designed and deployed a responsive React + Tailwind portfolio optimized for accessibility and performance– Showcased live demos, GitHub projects, and resume download for recruiters | |

EXPERIENCE

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| Math Tutor | 2023 – 2024 |
| <i>Private Tutoring</i> | <i>Santa Rosa, CA</i> |
| <ul style="list-style-type: none">– Tutored 10+ students in math, reinforcing structured problem-solving and algorithmic thinking relevant to debugging and coding | |
| Photographer | 2018 – Present |
| <i>Freelance</i> | <i>Santa Rosa, CA</i> |
| <ul style="list-style-type: none">– Managed a photography business serving 45+ clients, overseeing technical workflows and client deliverables with precision and clear 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 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
<i>Sonoma State University, May 2025</i>	<i>Rohnert Park, CA</i>