

# ZACK NELSON

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## SUMMARY

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

## PROJECTS

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

## EXPERIENCE

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| <b>Math Tutor</b>   | 2023 – 2024                                |
| <i>Private Tutoring</i>   | <i>Santa Rosa, CA</i>                      |
| <ul style="list-style-type: none"><li>– Tutored 10+ students in math, reinforcing structured problem-solving and algorithmic thinking relevant to debugging and coding</li></ul>  |  |
| <b>Photographer</b>   | 2018 – Present                             |
| <i>Freelance</i>  | <i>Santa Rosa, CA</i>                      |
| <ul style="list-style-type: none"><li>– Managed a photography business serving 45+ clients, overseeing technical workflows and client deliverables with precision and clear communication</li></ul>   |  |
| <b>Military Police</b>  | 2013 – 2018                                |
| <i>U.S. Marine Corps</i>  | <i>Okinawa, Japan &amp; South Carolina</i> |
| <ul style="list-style-type: none"><li>– Led 70 Marines in operational environments, fostering accountability, teamwork, and clear communication, skills directly applied to engineering teams</li><li>– Managed logistical systems for \$4M+ assets with zero failures, applying disciplined, process-driven thinking to reliable system design</li></ul> |  |

## EDUCATION

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