

Danielle Andrews

Software Engineer / U.S. Marine Corps Veteran

SUMMARY

Software engineer with 5+ years of experience in end-to-end full-stack development across startups, mid-sized companies, and open-source projects. 7 years of combined experience in both military and engineering leadership with a background in mechanical engineering, aviation maintenance, and salmon research.

EXPERIENCE

Software Engineer Consultant | NOAA Fisheries | JAN 2025 – PRESENT

- Mentor a team of M.S. Data Science students from Seattle University in developing a stressor response e-library for Pacific salmonids.
- Review and provide feedback on the project wireframe, ensuring alignment with user needs and research goals.
- Conduct UI/UX testing, providing feedback to improve user experience.
- Perform code reviews to ensure high-quality, maintainable code.

Software Engineer Consultant | Hack For LA | APR 2024 – PRESENT

- Refactored GHA workflows using GraphQL when the website team migrated to the new version of GitHub Projects, improving workflow efficiency by 30%.
- Redesigned the back-end service using DuckDB to efficiently read data from Hugging Face, improving the performance of [311-data](#)'s map by X%.
- Improved accessibility for the [311-data](#) project by implementing zoom controls for the map that comply with WCAG standards.
- Updated technical documentation to improve clarity, reducing confusion for new contributors, leading to a 10% reduction in mistakes on Good First Issues and a 5% higher retention rate in new contributors.

Software Engineer | [Playpod](#) | JUN 2023 – SEP 2023

- Architected the language globalization feature, resulting in a 95% increase in the product's user base.
- Enhanced app functionality by implementing robust error handling, introducing a cache of profile photos for user selection, and incorporating breadcrumbs for seamless navigation, reducing user drop-off rates by 40%.

Software Engineer Consultant | Danielle's Consulting | JUN 2020 – PRESENT

- Defined statements of work for a diverse client base that ranges from small to midsize companies, serving customers and agencies statewide.
- Developed comprehensive end-to-end solutions for client websites, ranging from static to dynamic sites, focusing on accessibility for a wide range of users.
- Guided clients through the entire development process, troubleshooted existing site issues, and provided ongoing support as business needs evolved.

Engineering Manager | A&E Conveyor Systems | APR 2019 – JUN 2020

- Created and managed a project engineering schedule, optimizing workflows to reduce completion time by 20%.
- Engineered projects from sales handoff to completion and customer support.
- Oversaw in-house product fabrication and assembly.
- Managed the engineering team, coordinating with internal departments, vendors, and customers to achieve a 95% on-time, on-budget completion rate.

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SKILLS

Languages

JavaScript, R, Python, C/C++, SQL, GraphQL, Markdown, EJS, HTML, CSS, YAML

Libraries & Frameworks

Bootstrap, Tailwind CSS, MUI, React, jQuery, R-Shiny

Tools & Platforms

MongoDB, DuckDB, AWS S3, PostgreSQL, Node.js, Express.js, Postman, Git, GitHub

Design

Canva, Figma, Gimp, Adobe Express

Mechanical Engineering

Autodesk Suite, SolidWorks, Tekla Structures, LaTeX

EDUCATION

B. S. Mechanical Engineering

Kennesaw State University

- Honors: Magna Cum Laude, Global Engagement Certification
- Relevant Course: Programming for Engineers (C++)

MILITARY

USMC Veteran

Helicopter Mechanic | Sergeant (E5)

VOLUNTEERING

SciPy Conference 2024

Tacoma, WA

Hood Canal Salmon

Enhancement Group

Field Research & Stewardship

INTERESTS

Smart house: home server, pi-hole ad-sink, home assistant; 3D printing; Discworld; Skyrim