Danielle Andrews

Software Engineer / U.S. Marine Corps Veteran

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SUMMARY

Full-stack software engineer and U.S. Marine Corps veteran with 4+ years of experience building scalable web applications and APIs. Proven track record of delivering high-quality, production-ready code with expertise in JavaScript, TypeScript, React, and Node.js. Strong background in backend integration, API development, and cross-functional collaboration with product and operations teams. Experienced in debugging production issues, implementing monitoring solutions, and working with distributed systems. Committed to delivering meaningful impact in healthcare technology.

TECHNICAL SKILLS

Languages: JavaScript (ES6+), TypeScript, HTML5, CSS3, R, SQL, GraphQL
Libraries & Frameworks: React.js, Redux, Next.js, Shiny, Tailwind CSS, MUI, Bootstrap
Testing: Jest, Vitest
Cloud: AWS (SNS, SQS, S3, Lambda)
Tools: MongoDB, PostgreSQL, Node, Express, Postman, Git, GitHub
Soft Skills: Cross-functional collaboration, project management, stakeholder communication, mentoring, product ideation

EXPERIENCE

Software Engineer | Hood Canal Salmon Enhancement Group | JUN 2025 – PRESENT
- **Architecting a database management system** for fish conservation projects.
- **Building APIs** for live data integration with existing website.
- **Designing intuitive GUIs** for data input by the scientists.
- **Developing reporting dashboards** that will automatically update as more data is added.

Software Engineer | NOAA Fisheries – NWFSC | JAN 2025 – PRESENT
- **Collaborate with cross-functional teams** including scientists and developers to deliver user-centered solutions.
- **Mentored team of graduate students** through technology migration, improving development workflows and Git collaboration practices.
- **Implemented comprehensive testing and monitoring** to ensure production reliability and system performance.
- **Spearheaded full-stack development** of GIS-integrated Estuary Impact Calculator using modern web technologies, supporting regulatory transparency for Puget Sound ecosystem management.

Software Engineer | Playpod | JUN 2023 – SEP 2023
- **Scaled user base by 95%** via backend integration of Spanish language support with AWS transcription services.
- **Reduced drop-off rates 40%** by implementing error handling, caching, and intuitive navigation features.
- **Collaborated with product team** to prioritize features based on user feedback and business requirements.

Software Engineer | Danielle's Consulting | JUN 2020 – PRESENT
- **Sole developer** for TRVWD website serving water utility information, ensuring accessibility compliance and mobile-first design.
- **Conducted user research and analytics reviews** to prioritize improvements aligned with agency goals.
- **Integrated GitHub workflows and ticketing systems** to streamline development and communication.

Engineering Manager | A&E Conveyor Systems | APR 2019 – JUN 2020
- **Led engineering projects from sales hand-off to shipment**, coordinating across vendors, customers, and internal teams, resulting in 90% on-time, on-budget delivery.
- **Streamlined workflows and accelerated timelines** by developing optimized project schedules and leading cross-functional planning.
- **Managed technical trade-offs** between business requirements, urgency, and engineering best practices.

VOLUNTEERING

Backend Developer | TeamForward Networking | APR 2025 – PRESENT
- **Building AWS-integrated automation workflows** for post-event processing, updating MongoDB records, triggering attendee emails, and sending in-app notifications.
- **Implementing test-driven development** using Jest to ensure code quality and system reliability.
- **Collaborating with front-end and product teams** in a fast-paced environment.

Frontend Engineer | Hack For LA – 311Data & Website Teams | APR 2024 – PRESENT
Project: 311-Data
- **Improved system performance** by converting legacy React class components to functional components.
- **Enhanced accessibility compliance** by implementing WCAG-compliant zoom controls and ARIA tags.
- **Reduced onboarding errors by 10%** through improved technical documentation and contributor guidance.
Project: Website
- **Optimized CI/CD workflows** using GitHub Actions, YAML, and GraphQL, improving efficiency by 30%.
- **Mentored new contributors**, achieving 5% retention increase and reducing onboarding confusion.

Research & Data Scientist | Hood Canal Salmon Enhancement Group | AUG 2024 – PRESENT
- **Trained and mentored volunteers**, ensuring efficient program operations and fostering community engagement.
- **Collaborated with biologists, tribal groups, and educators** to align data practices with conservation goals.
- **Installed and operated weir and rotary screw traps** across multiple rivers to assess salmonid abundance, life history traits, and migration timing; performing mark/recapture studies to estimate trap efficiency.
- **Collected and analyzed biological data** from chum, coho, and steelhead populations, including carcass surveys, otolith and fin clip sampling under sedation, and identification of bycatch species.
- **Supported salmon recovery programs** by distributing chum carcasses for nutrient enhancement.
- **Helped maintain 215,000 fall chum eggs** across five Remote Site Incubators, ensuring safe hatching and release.

EDUCATION

B. S. Mechanical Engineering | Kennesaw State University | 2018
- Magna Cum Laude Honors & Global Engagement Certification
- Relevant Coursework: Programming for Engineers (C++)

MILITARY SERVICE

Sergeant (E5) | Helicopter Mechanic | United States Marine Corps | DEC 2011 – DEC 2019
- **Led and mentored a 15-member technical team** in high-stakes environments, fostering collaboration, clear communication, and mission alignment.
- **Diagnosed and resolved complex electromechanical issues** via problem-solving and systematic troubleshooting.
- **Enforced rigorous quality standards** and documentation practices, ensuring compliance with critical safety requirements.

INTERESTS
- Pi-Hole, Home Assistant, 3D Printing, Discworld, Skyrim