

# Danielle Andrews

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## SKILLS

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**Languages:** JavaScript, TypeScript, Python, SQL, R, Bash, GraphQL

**Front-End Technologies:** React, Next.js, HTML, CSS, TailwindCSS, Shiny

**Back-End Technologies:** Node.js, Express

**Database:** PostgreSQL, MongoDB, DuckDB

**Cloud & DevOps:** Docker, AWS (S3, Lambda, SNS), Vercel, Netlify

**Version Control:** Git, GitHub, GitHub Actions

## EXPERIENCE

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### **Software Engineer & Founder, Danielle's Software Consulting, Remote**

**June 2020 – Present**

Provide full-stack software engineering, data visualization, and database development services for public, nonprofit, and private-sector clients. Relevant clients include:

#### ***NOAA Fisheries – Northwest Fisheries Science Center***

- Delivered a fully functional R/Shiny web application to replace a legacy Drupal system by mentoring a team of M.S. Data Science students through a 6-month migration project.
- Improved system stability and user experience by resolving UI and database integration issues, including migration from SQLite to PostgreSQL and implementing persistent filtering.
- Enhanced collaboration by teaching Git/GitHub fundamentals to NOAA teams and coordinating with database administrators to establish official PostgreSQL hosting credentials.

#### ***Hood Canal Salmon Enhancement Group***

- Increased website user engagement 15% by integrating interactive data visualizations into the WordPress site.
- Centralized data management for fish restoration projects by developing a NoSQL database in MongoDB, streamlining data entry, and reducing retrieval time by hundreds of hours annually.
- Improved data integrity and collaboration by implementing a dual-submission workflow to sync data with the Washington Department of Fish and Wildlife's shared database.

#### ***Tahuya River Valley Water District***

- Made public information easily available for the first time by designing and developing their website.
- Maintain the website by adding meeting minutes every month and posting notices when outages are reported.

#### ***Playpod***

- Scaled user base by 95% through backend integration of multilingual transcription via AWS services.
- Improved retention by 40% by optimizing API caching, error handling, and navigation across the front end.

#### ***The Bridge Workforce***

- Increased engineering team efficiency by 30% by introducing GitHub-based ticketing and Agile workflows.

### **Engineering Manager, A&E Conveyor Systems, Canton, GA**

**April 2019 – June 2020**

- Reduced project completion time by 20% by developing and maintaining detailed engineering schedules that optimized design and fabrication workflows.
- Improved product reliability and customer satisfaction by overseeing in-house fabrication, assembly, and testing to meet performance and quality specifications.
- Delivered 90% of engineering projects on-time and within budget by standardizing CAD documentation, integrating with an ERP system, and proactively resolving design and supply chain issues.

## MILITARY

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### **United States Marine Corps, Various Locations**

**December 2011 – December 2019**

- Maintained 100% mission-ready status for a fleet of helicopters by performing and overseeing rigorous inspections, repairs, and quality control checks.
- Led and trained a team of 15 Marines to achieve technical proficiency and compliance by fostering collaboration, accountability, and adherence to strict military standards.
- Minimized aircraft downtime and improved reliability by troubleshooting complex electromechanical systems using structured problem-solving methods.
- Enhanced operational efficiency under high-pressure conditions by driving continuous improvement and cross-functional coordination.

EDUCATION

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**Bachelor of Science (B.S.) Mechanical Engineering, Kennesaw State University – *Magna Cum Laude*      *December 2018***

- Relevant Coursework: Programming for Engineers (Python, C, C++) | Global Engagement Certification

OPEN-SOURCE/VOLUNTEER

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**Frontend Developer, Hack for LA – 311Data Team, Remote      *April 2024 – Present***

- Improved system performance by converting legacy React components to modern functional architecture.
- Enhanced accessibility compliance (WCAG 2.1) for city data visualizations.
- Rebuilt interactive map components.

**Backend Developer, TeamForward Networking, Remote      *April 2025 – October 2025***

- Cut manual post-event tasks 80% by engineering AWS-integrated workflows to automate event processing and email notifications.