

# Keith Danielson

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## SKILLS

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**Programming Languages:** JavaScript | TypeScript | HTML | CSS | SQL | Python | C++

**Frameworks & Libraries:** React.js | Node.js | Vue.js | Svelte | Express.js | Redux | Vuex | Pinia | TailwindCSS | Vuetify | Jest | MQTT | Flatbuffers | Protocol Buffers | Stripe | Clerk

**Databases & Tools:** Docker | AWS S3 | Git | GitHub Actions | MySQL | MongoDB | JWT | Test Containers | CI/CD pipelines | Figma | Supertest

## WORK EXPERIENCE

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### CACI

Westminster, CO

*Software Engineer T2*

*June 2021 - Present*

#### Full-Stack Feature Implementation

- Developed a "Standup" Tile to configure and activate Wi-Fi access points, moving from Figma wireframes to production and enabling device connectivity.
- Built the frontend with Vue.js and the backend with Node.js (TypeScript), applying SOLID principles for maintainability in an embedded web application.
- Contributed to a Docker-based GitLab CI pipeline with automated builds, merge validations, artifact management with Nexus, and Jest tests, collaborating on versioning, key-based authentication, and functional testing.
- Integrated with a C++ layer via daemon net sockets and Protocol Buffers for device operations.

#### System Integration & Data Exchange

- Leveraged an event-driven microservices architecture using MQTT and Flatbuffers for data streaming between containerized services.

#### Automated S3 Transfer

- Created a secure, automated file-transfer system using Vue.js for data selection and scheduling in a Node.js backend, integrating with AWS S3 via IAM roles and access policies. Implemented configurable scheduling, status tracking, error handling, and history logging.
- Achieved a 100% success rate in government-witnessed deployment tests.

#### Performance Optimization

- Led a critical optimization project for a data-intensive, customer-facing Vue.js application receiving large volumes of data via websockets and MQTT, reducing JS Heap usage by 53% and eliminating frequent browser crashes.

#### UI/UX Redesign

- Migrated a legacy Polymer application to Vue.js and Vuetify with Webpack/Babel optimizations, gathering feedback from post-training surveys and real-world use to iteratively improve the UI/UX.
- Designed and built a Settings Page for system updates, health reporting, logging, MQTT configurations, user management, and network settings. Served as the sole UI designer, refining wireframes based on input from military stakeholders, field personnel, and a technical manager.

#### Agile Collaboration

- Worked with a team of four developers and system testers in a Scrum environment, owning features end-to-end from design and wireframing to frontend and backend integration.

## PROJECTS

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### napoleonic.us

- Developed a platform to showcase and sell instrumentals using React.js, React Router, TailwindCSS, and Vite for the frontend, and Node.js/Express.js with MySQL for the backend.
- Integrated user authentication with Clerk, large audio file storage via AWS S3, and shopping functionality via Stripe API, including webhook-driven order creation and digital content delivery.
- Implemented end-to-end tests using Jest, Supertest, and TestContainers with a dockerized MySQL database.
- Hosted the application on Docker containers and automated deployments using GitHub Actions.

### keithdanielson.com

- Built a personal portfolio site using Svelte and TailwindCSS for responsive design and deploying through Vercel.

## EDUCATION

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### Colorado School of Mines

*Bachelor of Science in Computer Science*

Golden, CO

*2022 (Major GPA: 3.9)*