

ADAM SHAPPY

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FULL STACK DEVELOPER

Full stack web developer with a unique skill set and a long-standing interest in technology and science. I utilize critical thinking to develop optimal solutions to complex problems.

Technical Skills – React Native, Ramda, Expo, Moment.js, Node.js, React.js, MongoDB, InfluxDB, PostgreSQL, Rails, Svelte, Express.js, Babylon.js, Leaflet.js, Ruby, JavaScript, HTML, CSS, TCL, GitHub, Postman

WORK HISTORY

Alpine Media Technology	React Native Developer	2020-2021
MariPilot	Software Engineer/Advisor	2020
Northern Power Systems	Technical Support and Triage	2016 - 2019

PROFESSIONAL PROJECTS

Mobile Development for SaaS Products

Code base that generates configurable mobile apps for major U.S. ski resorts (i.e., Winter Park, Powder Mountain)

- Worked within a software deployment pipeline using React Native to release production-level products
- Focused on feature development and bug fixes identified in bi-weekly sprints in an agile environment

Ski Lodge Capacity Tracker

App feature that uses web sockets to monitor lodge capacity in real time to adhere to local COVID-19 restrictions

- Built with React Native to provide users with live data on current number of patrons
- Utilized dynamic UI based on user privileges (e.g., staff vs. patrons)

Global Aquaculture Web Platform

Full stack web platform to increase connectivity and profitability for the global aquaculture industry

- Utilized React and Redux to create reusable components and handle state management for complexities within user profiles and community forums

PERSONAL PROJECTS

[Corona Warrior](#) - [Github Repo](#) | [Video Demo](#)

3D web game where players battle the evil Corona Orbs in hopes of discovering the hidden vaccine

- Full 3D videogame built using JavaScript and Babylon.js library
- Employed modern 3D modeling software (Blender, and GIMP) to build game assets
- Created 3D environment using heightmaps and skybox

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PERSONAL PROJECTS (continued)

Quarantine Chat - [Github Front-end](#) | [Back-end](#) | [Video Demo](#)

Chat UI that promotes social interaction while in isolation

- Built with React on the front-end and Rails on the back-end
- JWT Auth allows users to create an account and profile with a bio and photos
- Chat interface uses logic to pick which photo each user displays actively

Frontrange Enduro Trainer - [Github Repo](#) | [Video Demo](#)

Web Portal for creating personal enduro mountain bike training plans

- JWT Rails Authentication provides protected account creation and sign-in
- Users have full CRUD accessibility to their weekly to-do list for training
- Using leaflet.js, users can view accessible trails with an interactive map feature. The map also utilizes Mountain Project API to gain access to over several thousand MTB trail information and conditions

Basil Dash - [Github Repo](#)

Full-stack web application for Ceres Greens to remotely monitor their indoor vertical hydroponics system

- Utilized OpenMotics' cloud API to provide the client with real-time data in a weather app format
- Created database using InfluxDB to store historical data for future yield analysis
- Intentionally created in a modular structure to allow for future expansion and innovation

Fast Folding Proteins - [Li Research Group, University of Vermont](#) | [Video Demo](#)

Research conducted as a computational chemist to understand multiscale modeling of proteins

- Developed TCL scripts which created animations for trajectory analyses and protein-folding dynamics
- Presented conclusive research findings to the UVM Chemistry Department

EDUCATION & CERTIFICATIONS

University of Vermont, Burlington, VT

B.S Chemistry, Minor Mathematics

Burlington Code Academy, Burlington, VT

Web Development Certification

Flatiron School, Denver, CO

Software Engineering Certification