

ADAM SHAPPY

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FULL STACK WEB DEVELOPER

Full stack web developer committed to a new career path after academically pursuing chemistry. I bring a unique skill set to the table including my long standing interests in technology and science. I utilize critical thinking to develop optimal solutions to complex problems.

Technical Skills - *Node.js, React.js, MongoDB, InfluxDB, PostgreSQL, Rails, Svelte, Express.js, Babylon.js, Leaflet.js, Ruby, JavaScript, HTML, CSS, TCL, GitHub, Postman*

TECHNICAL PROJECTS

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

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

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](#)

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

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

WORK HISTORY

Northern Power Systems	Technical Support and Triage	2016 - 2018
UVM, Department of Biomedical and Health Sciences	Lab Tech	Fall 2014

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