

Matthew Volny

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Technical

Languages:

JavaScript/Typescript, Solidity

Libraries/Frameworks:

Node.js, React, Redux, MUI, Bootstrap, jQuery, GraphQL

Databases:

PostgreSQL, MongoDB

Tools:

VS Code, Git, Github

Projects

React Crypto Dashboard, April 2022 [Demo](#) | [GitHub Repo](#)

- Interactive dashboard displaying up-to-the-minute prices, news, and charts for a user's cryptocurrency assets, and thousands of other coins. Site data is derived from public APIs, with animated charts made using either 'britecharts' or 'lightweight-charts'.

React Adventure Game, March 2022 [Demo](#) | [GitHub Repo](#)

- Point-and-click game where players explore an expansive map, collecting items and solving puzzles. Images are made interactive using 'image-maps', navigation is accomplished with 'react-router', and a SQL database is used to save game-state.

Express Chat App, Feb 2022 [Demo](#) | [GitHub Repo](#)

- Real-time chat application to schedule and have private conversation between two or more users. Socket connections are made using a node server and 'socket.io', while user data – including contacts and message histories – are stored in a noSQL database.

Javascript Learning Site, Jan 2022 [Demo](#) | [GitHub Repo](#)

- Kids educational app for learning about Mars rover missions. Faux 3-D animated globe built using CSS, interactive map produced using NASA 'geoJSON' data and Javascript's 'canvas' API, and dynamic timeline made using data from the NASA Mars Rover API.

Education

DigitalCrafts, Atlanta, GA

Certificate, Web Development

University of Georgia, Athens, GA

PhD, Genetics

State University of New York at Oswego, Oswego, NY

BS, Biology

Employment

Loop Crypto, Remote, USA

Software Engineer Intern, June 2022 – present

- *Constructed various features including a sophisticated dashboard for displaying and sorting blockchain-stored customer transaction data. Front-end built using React and Material UI, with GraphQL used for API queries.*

Applied DNA Sciences, Stony Brook, NY

Associate Scientist, October 2017 – July 2020

- *Experimental design, data collection and analysis, preparation of written reports/presentations, and project management.*

University of Virginia, Charlottesville, VA

Lecturer, *Introduction to Biology*, Biology Department, August 2015 – May 2016

- *Construction of learning materials, course management, teaching, and mentoring.*