

# MICHAEL ROMAY

## FULL STACK ENGINEER

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## PROFILE

I'm a full stack software engineer with a deep focus on intuitive design, test-driven development, and writing DRY code. I believe good design drives clear product requirements and leads to better technical understanding. I'm a multidisciplinary artist at heart and view every new project as an opportunity to build something useful and elegant.

**Languages:** JavaScript, Java, C, C++, C#, HTML, CSS

**Environments & Frameworks:** Node.js, Express, Mongoose, React, Redux, Processing, p5, Max MSP, PureData, Unity

**Databases:** MongoDB, Postgres

**Testing:** Jest, Q-Unit, TDD

**Tools:** Github, Heroku, VSCode, TravisCI, Compass, Postman

## EDUCATION

### FULL STACK SOFTWARE DEVELOPMENT

**Alchemy Code Labs** | Jan 2020 - June 2020  
800+ hour intensive MERN-stack (MongoDB, Express, React & Redux, Node) professional training focused on clean code, Agile methodology, team work, and test-driven development.

### CREATIVE CODING PROGRAM

**Portland Community College** | 2017 - 2019

A two year program that introduces industry-standard computer programming languages for creative purposes, such as immersive experiences and installations, generative graphics and sound, and interactive applications and environments using Processing (Java), Arduino Microcontrollers (C, C++), p5.js (JavaScript), Max MSP, PureData and Unity (C#).

## PROJECTS

**alcherithm** - [github](#) - [site](#)

**React | Express | MongoDB | Node.js | QUnit**

Alcherithm is designed to be a JavaScript coding companion to help junior software developers learn and practice various code challenges. My team and I developed a learning platform that combines resources, videos and documentation to help developers build up a foundation in code. Users can code live in the browser and have that code checked against tests using QUnit. I wrote the user authentication for the front and back end and implemented a global state provider to share data to our various modular components, along with a lot of the design and conditional rendering in the app.

**fresh-track** - [github](#) - [site](#)

**React | Express | MongoDB | Node.js | Google Drive API | Dropbox API**

A simple file repository solution that allows artists to collate their latest music files stored on Google Drive, Bandcamp, Soundcloud and Dropbox into a single-location to share, listen and collaborate with others. I was largely the system architect for this project. Primarily coded the React front end with focus on state management, sourcing music from multiple APIs, creating a playlist, and displaying details of a playlist.

**airSupply** - [github](#) - [site](#)

**React | Express | PostgreSQL | Node.js | Google Maps API**

Rooted from popular shared spreadsheet amongst a community of artists, airSupply collects artist residencies and grants from around the world and makes them easily accessible by search parameters, Google Map marker, and residency / grant type. I championed this idea for this project to help it come to light and also setup the postgres database/general SQL search guidelines to help user navigation as well as designing and implementing our front end using React.

## EXPERIENCE

**PORTLAND COMMUNITY COLLEGE** | 2017 - 2020

### Teaching Assistant Creative Coding

Helped students with coding projects in Java (Processing), C/C++ (Arduino IDE), JavaScript (p5.js), Max MSP and helped plan and put together interactive art installations

### Instructor

Taught Java (Processing) to incoming Jefferson High Students as part of their STEM program

**OMG COMPUTER** | 2009 - 2020 | [yelp](#) - [site](#)

**Owner / Founder / Lead technician**

- Founded, managed and operated a computer repair company that specialized in on-site networking and break/fix support both remotely and in our storefront
- Grew the company to five employees and to make the company successful over the past decade growing the customer base and revenue by 50% each year helping 1000's of customers and small businesses in the process

**Catalinbread Effects** | 2018 - 2020 | [site](#)

**Lead technician**

- Developed a pedal design based on a previously distributed model adding features requested online such as tap tempo and expression pedal input
- Oversaw the repairs and artist relations departments of the company creating a system for rapid turnaround to customers for repairs and built the company's brand by getting notable artists involved with the company