

# MICHAEL SHIH

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**Languages:** JavaScript, Ruby, SQL, HTML, CSS  
**Skills:** AWS, Rails, React, Redux, PostgreSQL, SQLite3, MongoDB, Express, Redis, CI/CD services, EMR systems  
**Learning:** TypeScript, Go, Docker, Kubernetes

## PROJECTS

### Ravine-JS

[live](#) | [github](#)

*A pure JavaScript game where you control a player on an island with enemies and try to survive as long as you can!*

- **Pure JS** app only using **Canvas** manipulation and the browser environment
- Built a JavaScript application through an **object-oriented programming** paradigm to create an engaging and addictive survival game
- Leveraged JavaScript's browser environment to design a game engine that could smoothly animate and update game entities and artwork on Canvas
- Incorporated and developed an intuitive UI to communicate game objectives and user controls
- Applied and manipulated third-party independent art and music assets to fit into the application environment

### D15C0RD

[live](#) | [github](#)

*A full stack clone of the popular chat-app, Discord*

- Incorporated **ReactJS** with **Ruby On Rails** and applied **AWS S3** storage and Rails's **ActionCable** to facilitate live real-time chat rooms and image posts
- Applied and programmed distinct production environment logic to utilize **Redis** as an in-memory database to make the user's chat experience smoother and more responsive
- Designed the **Ruby On Rails** backend API to respond to fetch calls and return normalized JSON for the frontend's **react-redux** cycle

### What-AI-Want

[live](#) | [github](#)

*An intuitive website for custom avatar generator through OpenAI stable diffusion technology*

- Led team of 3 other engineers to execute project goals within 5 days while collectively learning about **MERN stack**
- Collaborated with dedicated backend engineer to develop an **Express** backend that could communicate with **OpenAI's beta API** for image generation
- Oversaw all **GitHub workflows** for the team, hosting daily standups to ensure project progression, including proactively and securely handling any potential merge conflicts
- Managed frontend and backend collaboration by ensuring that both developers aligned on the datatypes during our project's concurrent frontend and backend lifecycles

## PROFESSIONAL EXPERIENCE

### CityMD Urgent Care, New York, NY

#### CLINIC SHIFT SUPERVISOR

April 2020 – October 2022

- On-site shift logistics/operations manager, directed full clinical teams of 12 or more employees, often seeing over 100+ patients during peak pandemic time
- Increased patient satisfaction and team morale by serving as connection between frontend and backend clinical work; connecting patients with the providers and focusing on de-escalation and empathy
- Helped a diverse background of patients access the full range of CityMD services and referral network, including follow-up and aftercare through a focus on compassion, equity and inclusivity

## EDUCATION

### App Academy, Software Engineering Coding Bootcamp, NYC, NY

May 2023

- 16 weeks of coding and collaboration to condense 4+ years of programming experience
- Regular testing, project deadlines and consistent professional-industry feedback

### St. John's University, College of Liberal Arts and Sciences, Jamaica, NY

May 2019

**B.S. IN BIOLOGY, B.A. IN PHILOSOPHY, minor in Chemistry**