

# JIA MING (JIMMY) MA

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<https://www.jiamingma.me>

## EDUCATION

**City College of New York (Grove School of Engineering)**  
BS Computer Science *GPA: 3.84* (Summa Cum Laude, Dean's List)

New York, NY  
Sep 2017 - Dec 2021

## TECHNICAL SKILLS

Languages:	JavaScript/HTML/CSS, Python, TypeScript, Java, C++, NoSQL, SQL
Frameworks and Libraries:	React, Node.js, Express.js, Redux, Jest, MongoDB, PostgreSQL, Material UI
Tools:	GitHub, Docker, AWS ECS, CI/CD, Slack, Heroku, Cloudflare, Figma, Postman

## RELEVANT EXPERIENCE

### CUNY Tech Prep

*Software Developer Student*

New York, NY  
Jun 2020 - Jun 2021

- Selected for a technical training program, as one of 180 students out of 400+ applicants
- Learned in-demand technologies like React, Node + Express, and PostgreSQL as well as industry best practices for design, implementation, and deployments such as MVC, version control with Git/GitHub, agile & Scrum with Trello and Slack, test-driven development, and CI/CD

## PROJECTS

### Just Wordle (WIP)

<https://www.jiamingma.me/Wordle-TypeScript/>

- Implemented a responsive Wordle game that is playable on all devices with an organized code structure and coding best practices
- Developed using TypeScript with React Hooks, state management with Redux Toolkit, and wrote automatic unit tests using Jest
- Deployed on an AWS ECS Fargate cluster specifying a job to start my Docker container from my image
- Built a CI/CD pipeline with GitHub Action to automatically run tests upon any new push/pull-request and will build/push the updated Docker image to AWS ECR

### Snackies (Dec 2021)

<https://snackies.xyz>

- Designed a full-stack snack focused e-commerce website which has a rich user experience, mobile-friendly responsive UI using React/MUI and a fully functional back-end server
- Integrated Stripe API to securely verify payment data, and accept payments upon customer check out
- Implemented the login authentication using JWT stored as cookie along with Google OAuth login
- Stored user data in a MongoDB cluster, and created REST API with Express routing all in Node.js

### Pathfinding Visualizer (Nov 2021)

<https://www.jiamingma.me/Pathfinding-Visualization/>

- Implemented an interactive website that visualizes and teaches the behaviors of various pathfinding algorithms for fellow students
- The algorithms covered are Dijkstra's Algorithm, A\* Search, Breath-First Search, Depth-First Search, and Bidirectional Search

### MTA Tracker (Sep 2021)

<https://simplemta.xyz>

- Modernized the NYC transportation system for 5+ million New Yorkers by providing a full-stack application in which people can receive live information about the 472 train stations
- Designed an extensive REST API using Node.js, and used PostgreSQL as the database
- Collaborated in a team of 3 using Scrum (Agile) with constant stand ups, code reviews and updates

## SUPPORTING EXPERIENCE

### Business Technology Early College High School

*IT Consultant*

Queen's Village, NY  
Sep 2020 - Dec 2020

- Maintained upkeep of 5 computer labs and 200+ laptops for the reopening of the school during COVID19 to ensure technology availability for returning students
- Communicated and kept up-to-date with the supervisor about the progress and the condition of all the computer labs daily on Slack