Jia Ming (Jimmy) Ma

Brooklyn, NY · jiamingma1998@gmail.com · 917-639-8103 · GitHub · Portfolio

EDUCATION

City University of New York - CCNY Grove School of Engineering — New York, NY
Bachelor of Science in Computer Science — Sep 2017 - Jan 2022
Honors: Summa Cum Laude, Dean's List — *3.84 GPA*

TECHNICAL SKILLS

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

RELEVANT EXPERIENCE

CUNY Tech Prep — New York, NY
Software Developer Student — 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

PERSONAL PROJECTS

Just Wordle (WIP) — https://www.jiamingma.me/Wordle-TypeScript/

- Implemented a responsive Wordle game that is playable on all devices and browsers, garnering unique visitors daily
- Developed using TypeScript with React Hooks, state management with Redux Toolkit, and wrote automated unit tests using Jest
- Deployed on an AWS ECS Fargate cluster via a job that starts my Docker container from my image
- Built a CI/CD pipeline with GitHub Action to automatically run tests on new push/pull-request and will build/push the updated Docker image to AWS ECR for deployment

Snackies (Dec 2021) — https://snackies.xyz

- Designed an e-commerce website which has a rich user experience, mobile-friendly responsive UI using the MERN stack
- Integrated Stripe API to securely verify payment data, and accept payments upon customer check out
- Implemented secure user login authentication using JWT along with Google OAuth login
- Stored user data on MongoDB, and created REST API in Node with Express endpoint routing

Pathfinding Visualizer (Nov 2021) — https://www.jiamingma.me/Pathfinding-Visualization/

- Implemented an interactive website that visualizes and teaches the behaviors of various pathfinding algorithms to fellow CCNY 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 the 5+ million daily subway riders by providing a full-stack application in which people can receive live information about the 472 train stations
- Designed an extensive REST API which feeds live data from the MTA API, storing it in a cache with a TTL of 10 seconds which improved the response time from 200ms to 20ms
- 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 — Queen's Village, NY
IT Consultant — 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