RYAN MOHAMED

Software Engineer

3476981237 | **reyaznyc@gmail.com** | **Portfolio** | **LinkedIn** | **Github** | Jamaica, NY, 11434

EDUCATION

Bachelor of Science, Computer Science *January 2023*

Queens College, City University of New York

SKILLS

Languages: TypeScript, JavaScript, SQL, HTML, CSS, Python, Ruby, C++, C, Java

Technologies: React, Node, Next, Express, Sinatra, Firebase, Google Cloud Platform, AWS, Docker, Heroku, Netlify, MySQL, Microsoft SQL Server, PostgreSQL, Prisma, Sequelize, JIRA, Git, GitHub, UNIX, Linux, Mocha, Chai, Jest, Cucumber, Cypress, RSpec, Redis, Tailwind CSS

Methodologies: Full-stack Development, Front-end, Back-end, System Design, MVC, RPC, RESTful APIs, JWT Authentication, OAuth, SSR, JSON, Load Balancing, RDBMS, NoSQL, ORM, UX/UI, Responsive Web Design, OOP, Version Control, Agile, Waterfall, CI/CD, TDD, Unit Testing, Integration Testing, E2E Testing, WebSockets, TCP, HTTP/HTTPS, Cloud Computing, Data Modeling

EXPERIENCE

Code Coordinator, *The Coder School (Bayside, NY)* *December 2022 - Present*

- Implements excellent communication and collaboration skills to translate technical breakdowns of workflow and project progress to various stakeholders and colleagues.
- Communicates, collaborates, leads alongside other programmers and 30 personal students weekly - for the purposes of breaking down languages, frameworks, design patterns, coding practices and software development life cycle.

Programming Instructor, *The Coder School (Bayside, NY)* *August 2021 - Present*

- Developed Python, JavaScript, and other programming curriculum resulting in multiple teams of students achieving top 7 ranks in aged bracket nationwide coding competition.
- Teaches fundamental and advanced concepts in front-end development, back-end development, and databases using Python, Java, JavaScript, HTML, CSS, React.js, and Node.js. Resulting in a 27% increase in client demand for web-based curriculum.
- Programs, troubleshoots, maintains documentation and curates lesson plans for over 300 games & tools in role lifetime using intermediate & advanced Python, with attention to detail on core game development, mathematics, problem-solving and critical thinking techniques.
- Operates 85% of core Java and OOP classes for game development, university-level tutoring, and preparation for AP Java exams.

PROJECTS

Restaurant Rodeo *Personal*

- Leveraged Google Maps API and Yelp Fusion API in design and development of full-stack web application in Next.js.
- Demonstrated industry best practices in data retrieval from RESTful APIs and use of web services, through SSR.
- Reduced Yelp API requests per search from 50 to 1 by developing a debounce and caching mechanism that renders and requests only the data that is needed and not retrieved yet.
- Translated Figma web designs to performant and high quality React components.

Stripe OpenAI Socket Generation *Personal (IN PROGRESS)*

- Architected perfomant multiplayer AI image generation web app w/ TypeScript Next.js, TypeScript Express/Node.js, Redis, PostgreSQL.
- Developed authenticated socket connections and REST API endpoints in TypeScript Express and Node.js following industry session-based strategies.
- Split architecture into isolated MVC social media component using tRPC data retrieval, and an isolated socket component for communication amongst clients with REST API endpoints for verifications made by web server.
- Strong ability to refactor and document technical specifications and project details.

Quizitiv *Personal*

- Architected, developed, and unit tested performant Quiz-based Social Media Web App following MVC and CRUD principles.
- Authentication and NoSQL database using cloud computing services - Firebase & Google Cloud Platform.
- Developed authenticated and secured model controller via custom REST API endpoints in Ruby using Sinatra.
- Full-stack web application created with Next.js for performant SSR, SEO, and routing. TypeScript React and Tailwind CSS.

PetMatcher, *Queens College*

- Collaborated with in a team of developers and designers according to Agile principles to deliver client-facing realtime AI generated pet web app.
- Socket-based client-server architecture with REST API endpoints built with Express, Socket.io, Node.js, React, Bootstrap and MySQL.