

Simon Quach

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EDUCATION

Orange Coast College - GPA: 4.0/4.0

June 2025

Bachelor of Science (B.S.) Mathematics

Costa Mesa, CA

- Courses: Fundamentals of Computer Science, Java OOP, Multivariable Calculus, Linear Algebra

EXPERIENCE

Code Ninjas

Jun 2022 - Present

Tutor/Mentor

Garden Grove, CA

- Teaches JavaScript and game engines (Unity, Roblox Studio)
- Proctors and scores programming assessments for video games
- Communicates students' progress to students, parents or teachers in written progress reports
- Facilitates tutoring workshops and collaborative projects for small groups of students

PROJECTS

Sink or Swim | NextJS, TypeScript, TailwindCSS, Flask, TensorFlow, Keras, OpenAI GPT-3 AI February 2023

Hackathon Project ([Website](#)) - ([Github](#))

- Created a story generation application utilizing server-side rendering
- Designed and implemented front-end using Figma, including animations
- Connected front-end to back-end Flask server
- Delegated tasks to two team members
- Winner at Nor Cal Spring Hacks 2023 (out of 194 total participants)

Group Groove | ReactJS, TailwindCSS, Node.js, Express.js, MongoDB

February 2023

Hackathon Project ([Website](#)) - ([Github](#))

- Built a full-stack MVP utilizing iTunes API to fetch music data
- Designed a RESTful backend using ExpressJS that performs CRUD operations on MongoDB database
- Implemented a "room" system using unique IDs in the database that users can interact with

Paddy Plant Prognosis | ReactJS, TailwindCSS, Vite, Flask, TensorFlow, Keras, OpenCV

January 2023

Hackathon Project ([Website](#)) - ([Github](#))

- Created a web application to help farmers identify diseases in their crops quickly and accurately
- Led team of 3: delegated tasks, helped teammates debug, etc.
- Designed overall website concept/layout (front-end), implemented responsive design across entire app
- Winner at MLH Hackrithmic 2023 (out of 106 total participants)

AI Image Generation | ReactJS, TailwindCSS, Node.js, ExpressJS, MongoDB, DALL-E AI

January 2023

Personal Project ([Website](#)) - ([Github](#))

- Developed and deployed a full-stack application utilizing DALL-E API to generate AI images
- Creates & stores AI images in MongoDB database for reference and retrieval
- Implemented a social media feature where users can upload their images to share with other users

Portfolio Website | ReactJS, TailwindCSS, Framer Motion, Vercel, Vite

January 2023

Personal Project ([Website](#)) - ([Github](#))

TECHNICAL SKILLS

Programming Languages: JavaScript, TypeScript, HTML/CSS, Python, Java, C++, C#

Frameworks: ReactJS, NextJS, Bootstrap, TailwindCSS, Node.js, ExpressJS

Libraries: Tensorflow, Mongoose, Beautiful Soup, OpenCV, NumPy, Matplotlib, Pandas, Selenium

Other: Firebase, Axios, Bash, Git, MongoDB, Vite, Vercel, Discord API, Figma