

Simon Quach

simonquach.tech@gmail.com | (657) 335-8853 | github.com/simon-quach

EDUCATION

UC San Diego - GPA: 4.0/4.0

June 2025

Bachelor of Science (B.S.) Math-Computer Science

La Jolla, 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

GitPT | *NextJS, TailwindCSS, Three.js, Node.js, Express, MongoDB, OpenAI GPT-3, Milvus*

May 2023

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

- Developed low-context chatbot app using GPT-3.5 for cost-effective codebase understanding
- Designed on **Figma** and implemented an intuitive and visually appealing user interface
- Created API routes and helper functions for GPT-3.5 and tree traversal integration
- Implemented a breadcrumb system to navigate the repository using a tree structure
- **Winner** at UC Santa Barbara SB Hacks IX (out of 132 total participants)

MonkeySign | *ReactJS, Vite, TailwindCSS, Flask, TensorFlow, Keras*

April 2023

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

- Utilizing real-time hand gesture detection and recognition algorithms, resulting in improved ASL skills
- Leveraging **Flask** and **socket.io** for seamless communication between the frontend and backend
- **Winner** at UC Riverside CitrusHack (out of 148 total participants)

Sink or Swim | *NextJS, TypeScript, TailwindCSS, Flask, TensorFlow, Keras, OpenAI GPT-3*

February 2023

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

- Led team in developing a webapp predicting Titanic survival and generating personalized narratives
- Developed custom dropdown menus for form submission, enhancing the user experience by providing intuitive and efficient input options.
- Ensured seamless integration between **NextJS** and **Flask**, allowing for efficient communication and data transfer between the user interface and the machine learning model.
- **Winner** at Nor Cal Spring Hacks 2023 (out of 194 total participants)

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 Hackrithmitic 2023 (out of 106 total participants)

TECHNICAL SKILLS

Programming Languages: JavaScript, TypeScript, HTML/CSS, Python, Java

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