

Jason Quach

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Education

University of Houston

Bachelor of Science in Computer Science, Minor in Mathematics

Relevant Coursework: Algorithms and Data Structures, Databases Systems, Software Design

Houston, TX

August 2024 - May 2026

Houston Community College

Associate of Science in Computer Science

Katy, TX

August 2022 - May 2024

Project Experience

Righteous Bot | Node.js, MongoDB, API Integrations, Web-Scraping

- Built and sold a feature rich Discord Bot with **650+** commands, generating **\$8,000+** in revenue.
- Integrated APIs from platforms like Spotify, Reddit, Twitter, and TikTok to deliver dynamic, real-time content
- Enhanced community engagement and partnered with record labels to build custom Discord automation tools for branding, moderation, and interactive fan experiences.

Volunteer Management Web App | Flask, React/TypeScript, PostgreSQL, TailwindCSS, Shadcn, SQLAlchemy

- Built a full-stack volunteer platform with JWT auth, email verification, and role-based access; implementing real time reminders using Socket.IO and APScheduler in a team of 4
- Designed admin/volunteer dashboards with TailwindCSS and contributed to PostgreSQL schema and event scheduling logic

CougarAI Website | React.js, TailwindCSS, Flask, Google Calendar API, Psycopg2

- Revamped the club website with a modular React/Tailwind design and integrated Google Calendar API for dynamic event tracking and deadlines for club members.
- Collaborated with officers to sync backend data via Flask and RESTful Apis.

Coog Zoo | MySQL, SQL, React.js, Tailwind, JWT, Express.js

- Developed a multi-role zoo management app with secure auth, dynamic entry for animals, staff, and events triggered by automatic SQL triggers
- Created real time dashboards for sales, donations, event reports, using React and SQL visualization

Technical Skills

Languages: Python, JavaScript, TypeScript, SQL, C++, R, HTML, CSS,

Frameworks: Node.js, Express.js, React.js, MongoDB, Vite, Discord.js, Next.js, TailwindCSS, Shadcn, Psycopg2, SQLAlchemy

Databases: PostgreSQL, MySQL, MongoDB

Developer Tools: Git, VS Code, PyCharm, R-Studio, JWT, REST APIs, Socket.IO, Axios, Docker

Extracurricular

CougarAI

University of Houston

Vice President (Previous Software Engineer)

Feb 2025-Present

- Led the redesign of the organization's full-stack website and bot, enhancing UX & automating points management
- Built dynamic, responsive features using Flask, SQL, Google Calendar API, and React through collaborative planning