

Eric Ngo

Undergraduate Student//Full-Stack Developer

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Experience

Qualcomm Institute - UC San Diego Division of Calit2

Undergraduate Research Assistant//Software Engineer

06/2019 - Current

- Co-authored a research publication, titled "Smartphone Telemedicine: A Novel Workflow for Creating Prosthetic Sockets Using Semi-automated Photogrammetry".
- Developed a specialized Android Application to automate photo capturing in a full rotation.
- Implemented a process to calculate the phone's position in space by leveraging the Android Sensor Framework.
- Designed a pipeline to save and send images to the cloud using Firebase Authentication REST API to reduce local app storage on the phone.

UCSD CSE Department Tutor

Data Structures//Software Engineering Tutor

01/2020 - Current

- Encouraged problem solving and debugging by teaching students how to use GDB, JDB, and Valgrind.
- Helped students understand data structures and how to implement them with proper design patterns.
- Co-lead weekly labs that introduced new software tools to students such as React, Docker, AWS, Linux...
- Participated in weekly stand-up meetings (discussions) focused on helping the development teams alongside the scrum master (professor).

Engineers Without Borders UCSD

Project Lead

09/2019 - 10/2020

- Lead a team through the development/deployment of a full web service for educational outreach.
- Taught my team the importance of Agile Development and routinely practiced many core methodologies.
- Organized and led weekly standup meetings, designed database architecture in PostgreSQL, guided UI design.
- Used the Django framework to leverage the built in Admin system for user account management and templating to write efficient code.

Education

University of California, San Diego

06/2017 - 12/2021 3.4 GPA

Bachelor of Science in Mathematics -
Computer Science with a minor in
Cognitive Science

Projects

RetroHub

09/2020

- Custom GitHub Profile App built with React, Node.js, and Express.
- Leveraged Github REST API, GitHub Polyglot, cheerio.js to collect user data and Chart.js for data visualization.
- Developed with SASS for efficient styling and React-Router to handle Client-side routing with an Express backend to handle API requests.

ericngo.me

09/2020

- First iteration of my personal website built with React, SASS, and Flexbox.
- Fully responsive mobile-first design through CSS Flexbox and Media Queries.
- Maintained structured and modular stylesheets through SCSS to maximize code reuse.

Note Keeper

08/2020

- Online note keeping app built with a React, Node.js, Express, and MongoDB.
- Utilized Axios to make API requests through a proxy to an Express backend that served JSON data.
- Integrated Passport.js and Passport Local Mongoose to utilize local cookies/sessions which allowed for secure account creation.