

Eric Ngo

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Education

University of California, San Diego

B.S. in Mathematics - Computer Science | Minor in Cognitive Science

3.4 GPA

September 2017 - December 2021

Experience

Project Lim[b]itless

June 2019 - Current

Undergraduate Research Assistant | Lead Software Developer

- Co-authored a research publication, titled "Smartphone Telemedicine: A Novel Workflow for Creating Prosthetic Sockets Using Semi-automated Photogrammetry" <https://doi.org/10.36227/techrxiv.12704984.v1>
- Developed an Android app that captures a stream of photos by leveraging the Android Sensor Framework, to automate photo capturing every 10 degrees in a full rotation.
- 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

January 2020 - Current

Data Structures/Object Oriented Programming/Software Engineering Tutor

- Guided students in becoming effective problem solvers and debuggers by helping them understand their code with debugging tools such as GDB, JDB, and Valgrind.
- Helped students understand data structures and how to implement them with proper design patterns.
- Co-lead weekly labs intended to introduce new software tools to students such as React, Docker, AWS, etc.

Engineers Without Borders UCSD

September 2019 - October 2020

Project Lead

- Lead a team through the development/deployment of a full web service for educational outreach and provided valuable insight into Agile Development practices.
- Developed a web service using the Django framework by utilizing the URLs and Views to link the different pages, the Templating to embed simple logic in HTML files, and the Admin system for management.
- Created a PostgreSQL database using the Django ORM to streamline a Blog Post.

Projects

RetroHub

- Custom Github Profile viewer to display all of a user's important information in a retro themed website.
- Leveraged Github REST API, GitHub Polyglot, and web-scraping (with cheerio) to collect user data and Chart.js to display it.
- Developed with React and React-Router to handle Client-side routing with an Express backend to handle API requests. (Hosted on Heroku)

Note Keeper

- Online note keeping application built with a React frontend, Express backend, and MongoDB.
- Utilized Axios to make calls to my Express server through a proxy set up in React.
- Integrated Passport Js and Passport-Local-Mongoose to leverage local cookies/sessions and allow for secure account creation.