

Matthew Ngo

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Work Experience

Full Stack Software Engineer (Contract)

January 2021 – May 2021

ICU Medical

- Developed a full-stack web application with PHP, Laravel, MySQL, and Bootstrap to upload, parse, and analyze logs generated by Cogent™ Hemodynamic Monitoring System

Education

University Of California, Santa Cruz

September 2019 – June 2021

Bachelor of Science in Computer Science

GPA: 3.83/4.0

- **Honors:** Magna Cum Laude, Honors in The Major, Dean's List
- **Relevant Courses:** Web Applications (HTML, CSS, JS, npm, React, Material UI, PostgreSQL), Database Systems (PostgreSQL, Python, psycopg2), Computer Systems Design (C), Distributed Systems (Python, Flask, Docker), Computer Architecture

Orange Coast College

August 2016 – May 2019

Associate of Science in Computer Programming, Associate of Science in Mathematics

GPA: 3.9/4.0

Projects

SPLITR: A Receipt Splitting App

CSE 115: Software Engineering AB

- Mobile-focused web app capable of capturing receipt image, parsing out individual items into a select-able checklist, calculating appropriate tax & tip percentage, and sending out corresponding Venmo payment & request. Developed with REACT, Material UI, Axios, Cloudmersive API, Node.js, and deployed on AWS

Full-Stack Email Browser

CSE 183: Web Applications

- Single page, Responsive web app with RESTful route validation and multi-user authentication supported using JSON Web Tokens. Developed with REACT, Material UI, Axios, OpenAPI, Node.js, Express, PostgreSQL

Multithreaded HTTP Server & Load Balancer

CSE 130: Computer Systems Design

- Server written in C responds to GET, PUT, and HEAD requests, with additional logging and health-checking features implemented.
- Load balancer designed to run in conjunction with multiple instances of HTTP Server to handle accepting concurrent client requests and distribute them over the set of servers.

"CA" Sharded Key-Value Store

CSE138: Distributed Systems

- Partition-tolerant, available, and causally consistent distributed key-value store. Fault tolerance guaranteed with replication, eventual consistency via gossip, and causal consistency through vector clocks + causal context JSON objects. Built with Python, Flask, and Docker

Skills

Stack

- **Frontend:** React JS, HTML, CSS, jQuery, Bootstrap, Material UI
- **Backend:** Node JS, Express, OpenAPI, Laravel
- **Databases:** MongoDB, PostgreSQL, MySQL
- **Testing Frameworks:** Jest, Puppeteer, SuperTest

Additional Languages:

- C++, C, JavaScript, Python, PHP, Java

Technologies

- Unix, Git, VirtualBox, Docker

SDLC Methodology

- Agile, SCRUM

Graphic Design

- Skilled with Adobe Illustrator and Photoshop