

Emmanuel Flores

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EDUCATION

UNIVERSITY OF CALIFORNIA, SAN DIEGO

B.S. COMPUTER SCIENCE

Sep 2020 - Present | La Jolla, CA

Expected Graduation: Jun 2024

GPA: 4.0 / 4.0

Regents Scholarship Recipient

Provost Honors | Sep 2020 - Present

JEFFERSON HIGH SCHOOL

May 2020 | Daly City, CA

GPA: 4.3 / 4.0

Valedictorian

COURSEWORK

UNDERGRADUATE

Data Structures

Software Tools

Discrete Mathematics

Design and Analysis of Algorithms

Systems Programming

Digital Logic Design

SKILLS

PROGRAMMING LANGUAGES

Proficient

Python • JavaScript • HTML

CSS • Java

Familiar

C • C++ • ARM Assembly

SystemVerilog • Bash • Batch

Exposure

Go • MATLAB • PostgreSQL

FRAMEWORKS AND LIBRARIES

Proficient

React • Selenium

Familiar

Node.js • Next.js • Express.js

Django • Keras • React Native

SOFTWARE TOOLS

Proficient

Git

Familiar

Heroku • Jest • gdb • JUnit

Exposure

Firebase

EXPERIENCE

TRITON SOFTWARE ENGINEERING | FULL STACK DEVELOPER

Nov 2020 - Present | La Jolla, CA

- Collaborated with students to build software projects **pro-bono for non-profit organizations** using **Agile methodology**

Family Literacy App | Sep 2021 - Dec 2021

- Contributed to mobile application built with **React Native, Expo, Go**, and **PostgreSQL** for Words Alive that allows users to read, explore, and learn about their favorite children's books

- Implemented **account password reset flow** and **save books feature**

Distribution Web App | Nov 2020 - Jun 2021

- Contributed to web application built with **MongoDB, Express.js, React, Node.js (MERN)** for Feeding San Diego that allows staff to view and update data about agency partners, and facilitate distribution of food to the under-served.
- Implemented **custom React calendar component for visualizing recurring events** and **form for updating partner agency data**

FIRST TECH CHALLENGE TEAM 3791 | LEAD PROGRAMMER

Aug 2018 - Jan 2020 | Daly City, CA

- Developed **driver programs** to allow peripherals to control robot movements
- Implemented **autonomous programs** that integrated with inertial measurement unit and motor encoders
- Created instructional material and provided mentorship to prospective programmers

KEY CLUB INTERNATIONAL | LIEUTENANT GOVERNOR

Apr 2019 - Mar 2020 | Indianapolis, IN

- Lead a division of **450+ members** spanning **14 schools** to obtain **10,000+ service hours**
- Deployed an **email automation tool** to send **100+ recurring reminders** to constituents

PROJECTS

UNIPALS

Mar 2021 | LAHacks Hackathon Submission

- Built a web application with **Next.js** and **Django** to facilitate social interaction between university students during the pandemic
- Developed **token-based user authentication system**

RECURRING INVESTMENT TOOL

Jan 2021 - Feb 2021

- Developed a **Python** script that integrates with **Google Sheets API**, **Plaid API**, and **third-party Robinhood API** to facilitate recurring stock and cryptocurrency investments given a portfolio spreadsheet
- Sent a total of **119 orders over 7 weeks**

VALKYRIE PCS

Jun 2020 - Dec 2020

- Co-lead a business venture involving the construction and sale of custom PC towers
- Programmed a bot to drive **2500+ views** to marketplace listings via proxy servers to boost traffic