

Emmanuel Flores

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Education

University of California, San Diego

La Jolla, CA

B.S. COMPUTER SCIENCE, GPA 4.0

Sep 2020 - Jun 2024 (Expected)

- Regents Scholarship Recipient, Provost Honors (Sep 2020 - Present)
- **Course Work:** Data Structures, Design and Analysis of Algorithms, Discrete Mathematics, Theory of Computation, Intro to Computer Architecture, Digital Logic Design, Programming Languages, Software Tools, Software Engineering

Skills

Programming Languages	Python, Java, C# TypeScript, JavaScript, HTML, CSS, MS SQL Server, Bash, Powershell, R, C, C++
Frameworks and Libraries	Angular, React, Next.js, Node.js, React Native, .NET Core, Express.js, Django, Selenium
Software Tools	Git, Firebase, Azure DevOps, Octopus Deploy, Jest, JUnit

Experience

Becton, Dickinson and Company (BD)

San Diego, CA

SOFTWARE ENGINEERING INTERN

Jun 2022 - Sep 2022

- Collaborated with an intern team to engineer a web-based data aggregation tool to facilitate the curation of drug concepts
- Implemented input field auto-complete and data validation features to **decrease data entry time by 25%+ and reduce data corruption**
- Developed a total of **20+ API endpoints** interfacing with **10+ SQL stored procedures** and **10+ LINQ queries** to efficiently retrieve data from a **million+ record database**
- Optimized multiple stored procedures via parallelization, nested procedure removal, and elimination of redundant subqueries – **reducing their query time by as much as 50%**
- Automated insertion of database table metadata from spreadsheets, upload of local stored procedures to live database server, and merging of release version code into local repositories – collectively accelerating workflow

Triton Software Engineering

La Jolla, CA

FULL STACK DEVELOPER, PRODUCT MANAGER

Nov 2020 - Present

- Collaborated with students to build software projects pro-bono for non-profit organizations using Agile methodology
- Architected features for multiple web and mobile applications built with modern technologies such as **MongoDB, React, Express.js, Node.js**. These included:
 - A mobile application for Words Alive that allows users to read, explore, and learn about their favorite children's books 📄
 - A web application for Feeding San Diego that allows staff to view and update data about agency partners, and facilitate distribution of food to the under-served 📄
- Formulated technical requirements, scoped features, and oversaw product implementation in a cross-functional team for the development of a mobile application to help local Bhutanese farmers transport goods 📄

First Tech Challenge Team 3791

Daly City, CA

LEAD PROGRAMMER

Aug 2018 - Jan 2020

- 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

Projects

ZooKeeper

ANDROID, JAVA, ROBOLECTRIC, ESPRESSO

- An Android application developed as part of a software engineering course that formulates and guides users through an optimized route plan for them to visit their desired zoo exhibits

Recurring Investment Tool 📄

PYTHON, GOOGLE SHEETS API, PLAID API, ROBINHOOD API (THIRD-PARTY)

- A script to automatically send recurring market orders for stocks and cryptocurrencies based upon the contents of a given portfolio

UniPals 📄

NEXT.JS, DJANGO

- A web application to facilitate social interaction between university students during the pandemic using personality and interest based matching