

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
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 cloud-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 and reduce data corruption
- Optimized multiple stored procedures via parallelization, nested procedure removal, and elimination of redundant subqueries – reducing query time by as much as 50%
- Constructed a singleton service to cache user-entered data, form state, and result data from costly queries across pages
- Automated insertion of database table metadata from spreadsheets to their corresponding SQL creation scripts
- Developed workflow scripts for interns to expedite upload of locally stored SQL procedures to live database server, and maintain continuity between local repositories and master release-version code

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 collectively used by hundreds of customers built with modern technologies including MongoDB, React, Express.js, Node.js, Expo
- Formulated technical requirements, scoped features, and oversaw product implementation in a cross-functional team for the development of a mobile application

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

Valkyrie PCs

PYTHON

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