Xean Nguyenla

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EDUCATION

University of California, Irvine, Irvine, CA   **Fall 2018 - Present**
- B.S Computer Science // GPA: 3.735 // Expected Graduation: Spring 2022
- Campuswide Honors Collegium Student
- Relevant Coursework: Data Structures, Design and Analysis of Algorithms, Computer Organization/System Design, Intro to Data Management, Intro to Artificial Intelligence, Next Generation Search Systems, Machine Learning & Data-Mining, Databases & Web Applications

SKILLS

- **Languages:** Python, C, C++, Java, x86 Assembly, HTML, CSS, Javascript, Dart
- **Technologies:** MySQL, NodeJS, Express, Flask, MongoDB
- **Graphic Design:** Adobe Photoshop/Lightroom/XD

WORK EXPERIENCE/LEADERSHIP

AsterixDB, Irvine, CA   **Oct 2021 - Present**
Undergraduate Researcher
- Translating **22 CH2 SQL++ Queries** (adapted from the **CH-benCHmark**, a benchmark to evaluate database systems) to **MongoDB** queries to test MongoDB efficiency and provide insight to the **AsterixDB** team
- Possibly developing a translator that takes in MongoDB aggregation pipeline operations and generates corresponding SQL++ queries

UCI Student Housing, Irvine, CA   **Sept 2021 - Present**
Resident Advisor
- Provided mentorship and supported **90 first-year residents** in a STEM-themed hall through community-building activities and conflict resolution meetings
- Planned **weekly programs/socials** focused on recreation and professionalism to foster a sense of community
- Incorporated **Discord** to facilitate communication and engagement with residents

Sapphire Software, LLC, Remote (based in Irvine, CA)   **April 2021 - August 2021**
Software Engineering Intern
- Collaborated with fellow interns to develop components and functions of an all-in-one real-estate **Flutter** app tailored to brokers and agents for both iOS and Android devices
- Implemented the **navigation bar** and its routing to the different features
- Implemented the front-end design of the **dashboard screens** and **property screens**

PROJECTS

Melloweather
- Collaborated in a team of four in **HackUCI 2021** to create a web application that generates a personalized Spotify playlist based on the current weather and the user's Spotify listening history
- Used **Node.js** with an **Express.js** framework to develop the back-end and implemented three APIs (**Spotify, Metaweather, and Positionstack**)

Wellness Notes
- Developed a web application that uses sentiment analysis and the user's **Spotify** listening history to recommend songs to either boost or maintain their mood
- Analyzed the user-inputted journal entries with **Microsoft Azure**
- Used **Flask** for back-end development and **MongoDB** to store user information and previous session recommendations

Fabflix (academic project)
- Developed a web application that incorporates full-text search through movies based on different parameters -- genres, rating, actors, etc.
- Used **MySQL** to hold over 60,000 pieces of data (including movies, actors, etc.) and used **Java servlets** to interact and connect to this database
- Implemented **MYSQL** replication, connection pooling, and load balancing
- Deployed project versions to **AWS** using **Apache Tomcat**
- Used **HTML**, **CSS**, and **Javascript** for the front-end, and implemented **reCAPTCHA** and **HTTPS** for deployment