Randy Quilala

rsquilala@gmail.com | (415) 518 5073 | San Francisco, CA

Education

University of California, Irvine — June 2023
Bachelors in Computer Science, cum laude graduate — 3.91 GPA

Technical Skills

Programming: Python, HTML+CSS+JavaScript, C/C++, Java, Shell Scripting, Git
Spark SQL, Neo4J, N1QL/SQL++, MongoDB, Cassandra, PostgreSQL, MySQL

Concepts: SQL, relational & non-relational databases, information retrieval
Front-end development, accessibility in web applications, microservices
Data structures, graph theory & algorithms
Quality assurance, functional & structural testing, continuous integration
Machine learning, neural networks

Coursework

Database Querying — March - June 2023

- Queried a database for a service supporting the exchange of goods and services between users (similar to eBay) to provide solutions to common and complex queries.
- Queried over various database technologies, including PostgreSQL, Cassandra, MongoDB, SQL++, Neo4J, and SparkSQL, some having been cloud-oriented and others run locally.

Projects

Gesture-based Surrogate Mouse Cursor — December 2022

- Designed a web page component with accessibility in mind, translating a user's hand gestures to web page navigation, imitating the functionality of a computer mouse.
- Written in JavaScript and uses Handtrack.js machine learning model to detect gestures.

Time to Sleep: Sleep Improvement App for College Students — January - March 2023

- Developed an application to heuristically recommend sleep improvement based on course schedule and tiredness throughout the day.
- Built with Ionic & Angular and deployed as a hybrid mobile app onto a smartphone.

Static Web Crawler — January 2022

- Programmed a Python web-crawler to accumulate information on over 30,000 web pages.

Involvement

President & Social Coordinator for Hiking Club at UCI — 2022-2023 Academic Year

- Managed and organized over 350 active members for weekly hikes.
- Automated weekly hike selection using Python scripts and Excel spreadsheets, computing priority based on various factors such as spots available and number of recent hikes attended.
- Managed club logistics, communications, and the social media space.