Koby Shaiseththah Outama

(209) 992-9639 • koutama@uci.edu

EDUCATION

University of California - Irvine | B.S. in Computer Science   Expected Graduation June 2023

Related Coursework: Python Programming (3 Quarters) | Programming in C++ as a Second Language | Data Structures Implementation and Analysis | Introduction to Linear Algebra | Introduction to Probability & Statistics for CS | Machine/Data Mining | Introduction to Artificial Intelligence | Principles of Operating Systems | Information Retrieval | Computer Networks | Introduction to Database Management | Design & Analysis of Algorithms | Principle in System Design | Beyond SQL Data Management | Software Test and Quality Assurance

SKILLS

Git | Python | C/C++ | HTML & CSS | MySQL/NoSQL | Cassandra | MongoDB | CouchBase Server | Neo4j | Relational Algebra | Regex | Machine Learning | JavaScript | Jquery | Typescript | Node.Js | Angular | Kotlin

EXPERIENCE

Private Coding Tutor | Self-Employed   August 2022 - Present

Stockton, CA

- Working with under-represented communities to introduce elementary and high school students to coding.
- Teaching students of various ages and skill levels to code in one-on-one sessions through zoom.
- Assisting students' understanding and proficiency in coding concepts, resulting in improved grades and project outcomes.

TECHNICAL PROJECTS

FoodForYou | Kotlin/Android Studio Development   January 2023 - March 2023
- Working with a group of four to develop a dietary assistance **application for android**.
- Responsible for creating activities, fragments, and designing basic layouts.
- Integrated google's **FireBase database** for real-time database hosting.

Spotify API | Angular/Node.Js   February 2023
- Utilized **JavaScript** and **Node.js** to make **HTTP requests** and trigger API calls.
- Displayed requested tracks, artists, or playlists from **Spotify API endpoints** for users on the local webpage.
- Employed **Angular** to create a modular, responsive, and reusable framework.

Multithreaded File Server | C   December 2022
- Utilized **Socket programming** to allow multi-client and server file operations.
- Designed a **thread-safe server** using **semaphores**, **mutex**, and **shared buffering**.
- Implemented reading, appending, and Md5 hashing of files from server to clients.

Rainfall prediction with satellite image information (UCI Data Competition) | Python   March 2022
- Ranked 6th out of 123 submissions with an AUC score of 0.72683 on kaggle.
- Employed models such as **decision trees**, **K nearest neighbor**, **linear classifiers**, and **neural networks** with logistic and **hyperbolic tangent activation functions** from **tensorflow** and **sklearn**.
- Analyzed 200,000 data points relating to satellite-based measurements of cloud temperature (infrared imaging) used to predict the presence or absence of rainfall at a particular location.