# Koby Shaiseththah Outama

(209) 992-9639 • koutama@uci.edu • linkedin.com/in/koby-outama/

## EDUCATION

**University of California - Irvine** | Bachelor of Science in Computer Science Expected Graduation Jun. 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

## SKILLS

Autodesk Inventor/Auto CAD | Git | Python | C/C++ | HTML & CSS | MySQL/Relational Algebra | Regex | Machine Learning

## EXPERIENCE

**American Campus Communities, Plaza Verde | Community Assistant** Aug. 2020 - Aug. 2022

Irvine, CA

- Developed a community and managed a building with 1141 residents by creating and organizing programs for residents to bond.
- Gained and developed technical and intrapersonal skills such as digital art, phone etiquette, and professionalism.
- Worked directly with management and leasing to ensure quality living for students during a stressful time — COVID-19.

## TECHNICAL PROJECTS

**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.

**Fashion-MNIST | Python** May 2022

- Worked in a team of three to produce a NeurIPS compliant report on classification of Fashion-MNIST data set.
- Trained on data set using Random Forest ensemble from sklearn and Generative Adversarial Networks from tensorflow.
- Achieved an accuracy of 88% using Random Forest Ensemble over 100 features.

**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.
- Employed models such as decision trees, K nearest neighbor, linear classifiers, and neural networks with logistic and hyperbolic tangent activation functions.
- 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.

**Web Crawler & Search Engine | Python** March 2022

- Lead a team of four and oversaw design and implementation of web crawling, indexing, and searching.
- Used techniques such as n-grams, page rank, and HITS for page analysis.
- Implement boolean and scored retrieval by using TF-IDF and corpus-wide statistics.