

Ali Hussain

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SUMMARY

Currently a senior at CSUF who's looking for an entry-level position or internship in the software engineering field.

EDUCATION

California State University, Fullerton

August 2020 - May 2023

Bachelor of Science, Computer Science

Relevant Coursework

- Algorithm Engineering
- Computer System Architecture
- Software Testing
- Software Engineering
- Operating System Concepts
- Web Front-End Engineering
- Open Source Development

Skills

Languages: C/C++, Python, HTML/CSS, JS, SQL

Operating Systems: Windows, Linux/Unix, macOS

Technologies/Tools: Visual Studio, VS Code, Git,

Github, Microsoft Office, MySQL

EXPERIENCE

Undergraduate Research Assistant

Cal State Fullerton (February 2022 - Current)

- Created and programmed an agent based model simulation tool using the Python framework MESA
- Testing different types of components and parameters to evaluate how changing intervention parameters will affect the outbreak within the agents of the model
- Creating a research poster to present and finalize research findings at TAPIA Conference 2022

Student Research Mentor

Cal State Fullerton (June 2022 - August 2022)

- Mentoring and assisting transfer students with their independent research as part of a 8-week summer program to gain first-hand experience with scientific research.
- Interacting with students in the lab and assisting/offering guidance as needed.
- Assisting students specifically with Python and basics of SEIR modeling.

PROJECTS

Titan Types

February 2022 - May 2022

- Using scrum/agile methodologies to develop a web app that serves the purpose of a typing test
- Implements an API to fetch randomly generated word and sentences.
- Written in jQuery and HTML/CSS

Who Would Win?

September 2021 - November 2021

- Online web application game utilizing Next.js that structures the project into components/pages alongside with JSX markup, JS scripting and HTML5/CSS3.
- Utilizes Google Firestore for database functionality featuring two collections.

AGM for Lassa Fever

April 2022 - July 2022

- Agent-based Model created using the Python framework "MESA" to help simulate Lassa Fever with a human and rat population.
- Implementing different sliders/variables/conditions to help compare and contrast different intervention strategies for managing outbreaks.