Ali Hussain

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EDUCATION

B.S. Computer Science, California State University of Fullerton   *08/2020 - Present*
  Cumulative GPA: 3.33
Saddleback College   *08/2016 -05/2020*
  Completed lower division classes for transfer.

SKILLS

Languages	*Operating Systems/Technologies*	*Relevant Completed Coursework*
• C/C++	• Windows	• Computer System Architecture
• Python	• Linux/Unix	• Software Testing
• HTML/CSS	• Trello & Jira (Agile/Scrum)	• Operating System Concepts
• Javascript	• Git & GitHub	• Software Engineering

EXPERIENCE

Software Engineer Intern , Sonarverse - Fullerton, CA   *08/2022 - Current*
- Currently working on rebuilding the Sonarverse landing using React that uses new designs and modern UI frameworks(e.g. design library) to build a user-friendly product website.
- Organized through Scrum/Agile methodologies, currently working with a team of 3 other software engineers to improve the product website by adding different user capabilities.
- Involves building the web functionality for both sites while also handling API development.

Research Assistant , Cal State Fullerton - Fullerton, CA   *02/2022 - Current*
- Formulated and designed a hybrid model (using Python & Mesa) consisting of agent-based simulations and equation-based modeling to simulate Lassa Fever accurately and efficiently.
- Presenting research findings at multiple events/conferences to a wide variety of people with different backgrounds by conveying complex topics in a concise and understandable format.
- Created mathematical model based on several differential equations and compartments using Python/Numpy library for differential equation derivations and outputting data.
- Currently researching how to produce machine learning models to predict Lassa Fever outbreaks in specific localities using historical data and GIS mapping.

Private Computer Science Tutor   *02/2022 - Current*
- Freelance Computer Science tutor that caters to lower division CS students in a large range of CS subjects from Intro to Programming to Data Structures and Computer Organization.
- Regularly planning tutoring lessons that adapt to students specific areas of needs as well applying different learning styles that they are the most receptive to.
- Primarily tutoring on practices and fundamentals of C++ and object-oriented programming.

Research Mentor/Teaching Assistant , Cal State Fullerton ASC - Fullerton, CA   *06/2022 - 08/2022*
- Mentoring and assisting transfer students with their independent research for an 8-week summer program to allow students to gain first hand experience into scientific research.
- Managing a team of three students in a dynamic and collaborative research environment while also providing training and support to newer technologies they weren't familiar with.
- Taught and mentored on the basics of Python, object-oriented programming, SEIR modeling and the Mesa framework for Python to create a dynamic disease-spread simulation model.
- Assisted grading a variety of student assignments throughout the duration for Professor Akwafuo's summer Computer Networking class (CPSC 471).