ALI SULTAN SIKANDAR

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EDUCATION

Lafayette College, May 2023
B.S. Computer Science & Minor in Economics

Easton, PA
3.75/4.0 GPA

TECHNICAL SKILLS

Java, Python, C++, C (System Verilog), HTML, CSS, JavaScript, MATLAB, FPGA, R, BlueJ JUnit, QtDesigner, React.js, MySQL, AutoCAD, SketchUp, ArcGIS, Excel (Advanced User), Tableau

PROFESSIONAL EXPERIENCE

NeuroLeap Corporation|San Jose, CA   **Feb 2021 - Present**
Software Engineering Intern

- Developed the frontend of awareness blog site using React.js in an Agile development model.
- Pair Programmed the backend features of the blog site in Node.js
- Prepared documentation for adding security measures to the company's main PostgreSQL database.

Excel Research Scholar, Lafayette College Neuro-Science Department|Easton, PA   **Jun 2020 - Jan 2021**
Research Student

- Generated Heat Maps from a large dataset of Virtual Maze Game that reflected participant's performance over a number of trials in Java's Processing.
- Consolidated Heat Maps differentiating atypical participants in a study to detect dyslexia in kindergarten students using Python.

Machine Learning Researcher, Ethics in Artificial Intelligence Project|Easton, PA   **Jun 2021 - Present**
Research Student

- Assembled a highl detailed and organized 200 point dataset of real-life ethical dilemmas faced by software developers working on Machine Learning models.
- Engineered an automated process of parsing, identifying and collecting commemtaries centered around ethics on openML/AI source codes on GitHub and other frameworks.

Mentored Study Group Leader|Digital Media & Computational Science|Easton, PA   **Aug 2021 - Present**
Teaching assistant

- Assisting the Professor in course-design by communicating student performances and needs assessed via biweekly review sessions. Prepare for each session by reviewing course material, communicating with course professors, developing examples to guide learning.
- Provide technical guidance to forty students like debugging, project design, simulation testing among others.
- Hold out-of-class review sessions to further student understanding of fundamental computer science concepts like Object Oriented programming in Java and development of high-level Python scripts.

PROJECTS

Cuddly System(C++)	A location-based desktop application which provides a matchmaking platform for potential pet adopters and shelter owners/foster parents.
Go Pards Timer (C)	An FPGA based human reaction timer which records and displays human reaction time to the nearest millisecond.
Profit Simulator (Java)	Analyzes the ideal conditions (working hours, employees, investments) to maximize daily financial profit of a restaurant.
Shot Map (Python)	Visualizes the shot Heat map of a soccer game after scraping relevant information through game id on Understat.com.
Space Escape (Java Processing)	A motion control and arcade survival game.

HONORS AND ACHIEVEMENTS

1st Place, CEATS Mathematics Competition, Aitchison College   **2019**
Lafayette College Deans List: Fall 2019, Spring 2020, Fall 2020, Spring 2021   **2019-2021**