ALI SULTAN SIKANDAR

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EDUCATION

Lafayette College, May 2023 **Easton, PA**
Major – Computer Science (B.S) & Minor - Economics GPA:3.60/4.0
Awards: Full Financial Scholarship; Deans List Award 2019 - 2021

EXPERIENCE

TD Securities **New York, NY**
Technology Analyst Intern *June 2022 – Present*
- Planned and implemented efficient data accessor modules to expedite xVA trading frameworks in Python for the FX division
- Load-tested internal REST APIs and gRPCs for client-facing applications
- Developed UI components to calculate and display risk metric data for various user transactions in React JS

Neuroleap Corporation **San Jose, California**
Software Engineering Intern *Feb 2021 – October 2021*
- Developed the front-end awareness blog site for multi-sensory IoT devices using React.js in an Agile development model
- 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**
Research Student *Jun 2020 - Present*
- Programmed a virtual maze game in Godot engine to serve as a training program in helping detect the onset of early dyslexia in kindergartners
- Generated Heat Maps from a large dataset of virtual maze game that reflected participant's performance over a number of trials in Java Processing

EXCEL Research Scholar, Ethics in Artificial Intelligence Project **Easton, PA**
Research Student *August 2021 – May 2022*
- Researched an exhaustive list of ethical concerns related to ML models
- Contributed significantly to the project which won a $60,000 award in Google Research Scholar Program for Professor Justin Smith
- Engineered an automated process of parsing, identifying and collected commentary centered around ethics on open ML/AI source codes on GitHub and other frameworks

TECHNICAL SKILLS

Java, Python, C++, C (System Verilog), Rest APIs, HTML, CSS, JavaScript, MATLAB, FPGA, R, QtDesigner, React, Node.js, Godot, MySQL, PostgresSQL, AutoCAD, REST APIs, ArcGIS, Excel (Advanced User)

PROJECTS

Cuddly System (C++): A location-based desktop application that provides a matchmaking platform for potential pet adopters and shelter owners/foster parents.

Profit Simulator (Java): Analyzes the ideal conditions (working hours, employees, investments) to maximize the daily financial profit of a restaurant.

Shot Map (Python): Visualizes the shot Heat map of a soccer game after scraping relevant information through the game id on Understat.com

Space Escape
(Java Processing) A motion control and arcade survival game.

Go Pards Timer (C): FPGA-based human reaction timer that records and displays human time to the nearest millisecond.