ASJAL AHMAD

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EDUCATION

Trinity University , San Antonio, TX   May 2024
Bachelor of Science in Computer Science   Cumulative GPA: 3.966
Minors in Data Science and Mathematics

EXPERIENCE

Streamline Innovations, Inc.   May 2023 - Present
Automation Developer Intern   *San Antonio, TX*

· Developed custom component modules for Ignition Vision using Java Swing to enhance HMI visualization, resulting in improved user experience and increased efficiency.
· Deployed and managed a centralized user management system on AWS Production Server, leveraging Ignition Gateway Network, to efficiently manage users across 30+ remote client gateway sites.
· Assisted supervisors with programming PLCs (Siemens, Allen Bradley) to control automated systems and processes.
· Configured and managed Canary OPC-UA collector to aggregate and historicize 1000+ tags data from multiple PLC platforms into a unified Ignition system for data analysis.

Addiction Resource Systems, Inc.   June 2022 - April 2023
Software Designer & Developer Intern   *San Antonio, TX*

· Led the design and development of a virtual pet mobile game for the WingMan app using Flutter, enhancing user engagement.
· Architected the application logic using the Cubit state management approach, optimizing performance and scalability.
· Built an in-game chat feature utilizing Google Firebase Firestore, enabling anonymous user communication.
· Automated web scraping using Python, Beautiful Soup, and Selenium for content curation.

PROJECT EXPERIENCE

Admissions Project   January 2023 - May 2023
Github   *Trinity University*

· Developed a classification model to predict enrollment decisions of over 13,000 accepted applicants at Trinity University from 2017 to 2021, resulting in a 5.5% improvement in the yield rate.
· Cleaned and preprocessed three years' worth of data, handling missing values and outliers, transforming variables, and creating interaction terms leading to a kappa score of 0.546.
· Implemented and fine-tuned nine machine learning models, including Logistic Regression, SVM, and Decision Trees, ultimately selecting the optimal model (Logistic Regression). This empowered admissions staff to improve follow-ups and enhance yield rates.

Booklore Application   November 2021 - January 2022
Github   *Trinity University*

· Developed a book management system using Python and SQLite, allowing users to store, search, update, and delete book entries.
· Implemented a user-friendly graphical user interface (GUI) using the Tkinter library for seamless interaction with the book database.

TECHNICAL SKILLS

Programming Languages	Scala, Python, Dart, SQL, C++, R, Jython, Haskell, Assembly, JavaScript
Frameworks/Technologies/Development Kits	Git, Ignition, Flutter, Tableau, Microsoft Office Suite, Jest, Supertest
Core Competencies	Mobile App Development, Data Visualization and Analysis, Database Development, Web App Development, Web Scraping

AWARDS AND HONORS

Trinity University Merit Scholarship	2020 – 2024
Trinity University Scholar (Top 15 student in class year)	2021, 2023
Trinity University Dean's List	Fall 2020, Fall 2021, Spring 2022