

Rafee Adnan

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PROFESSIONAL EXPERIENCE

- **Software Engineering Intern** Remote
Transamerica May 2023 - Aug 2023
 - Utilized the OpenAI API to lead the development of a transformative Transamerica-GPT initiative, aiming to enhance employee productivity through an advanced chatbot equipped with conversational memory
 - Developed versatile converters for HTML, PDF, and XLSX file formats, enabling efficient indexing of the S3 bucket document information by the chatbot
 - Developed a RESTful API in Python utilizing AWS Lambda Orchestrator, which enabled communication between a webpage and backend services
 - Integrated the API with S3 buckets and DynamoDB databases to facilitate seamless interactions with a chatbot interface

EDUCATION

- **Purdue University** West Lafayette, IN
B.S. in Computer Science May 2024
 - **Concentration:** Machine Intelligence
 - **Relevant Coursework:** Analysis of Algorithms, Data Structures and Algorithms, Data Mining And Machine Learning, Relational Databases, Systems Programming, Competitive Programming

EXTRACURRICULAR PROJECTS

- **Task Manager** Systems Programming
System Information GUI Application Dec 2023
 - Collaborated with two peers to develop a Qt 5-based Linux system monitor GUI in C and C++
 - Spearheaded the integration of detailed process information, including memory maps and open file tables, enhancing the tool's capability to monitor and manage system resources effectively
- **Semi-Autonomous Rover** Boiler Robotics Club
Comms & Intel Team Aug 2022 - Dec 2023
 - Mars Rover development to compete in the 2024 University Rover Challenge
 - Leveraging OpenCV API to empower the rover with computer vision capabilities and semi-autonomous functionality
 - Implemented an innovative approach to enable motor-controlled movement by integrating Pygame and ROS publishers and receivers
- **Bayer Yield Prediction** Purdue Data Mine
ML Undergraduate Research Aug 2022 - Dec 2022
 - Collaborated with a team in an Agile environment to utilize machine learning models with the objective of predicting the growth of maize grain yield
 - Used SQL to access plant phenotypic/genotypic data and Python libraries such as Pandas and matplotlib to manipulate data frames and visualize data for statistical analysis
- **BudgeMe** Hello World Hackathon
Budgeting Website Sep 2021
 - Collaborated with 4 developers to create a budgeting website made with JavaScript, HTML, and CSS aimed towards helping college students track expenses and organize weekly spending
 - Designed a functional pie chart that displays and organizes user expenses into different categories using Chart.js

CERTIFICATIONS

- **JPMorgan Chase & Co Certification** Remote
Software Engineering Virtual Experience Jan 2022
 - Utilized stock price data feed to implement a way to display data visually for traders
 - Using JPMorgan Chase frameworks, JavaScript, Python, and Typescript

TECHNICAL SKILLS

- **Programming Languages:** Java, Python, C++, C, JavaScript, C, SQL, ROS, R
- **Tools and Skills:** AWS, VSCode, IntelliJ, Qt 5, Pandas, TKinter, Pygame, TensorFlow, Keras, NumPy, OpenAI, OpenCV, Agile, Office 365, Chart.js, Node.js