Adnan Ali

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EDUCATION

University of Illinois Chicago   Graduation– Dec 2024
Bachelor of Science in Computer Science   *Chicago, IL*

EXPERIENCE

Software Intern   June 2024 - Aug 2024
University of Illinois Chicago   *Chicago, IL*
- Developed a web scraper in C++ using Gumbo to extract university course data, including prerequisites and credit information, improving data accuracy for course catalog management.
- Migrated a schedule optimization program from GLPK to Gurobi, reducing execution time from 60 seconds to 3 seconds, significantly enhancing system efficiency and scalability.
- Implemented and optimized algorithms for data parsing and analysis, contributing to improved resource utilization and decision-making processes.

Software Engineer Intern   Feb 2024 - May 2024
Boosted Biz   *Chicago, IL*
- Proficiently utilize Python, JavaScript, and SQL for backend development, specializing in database administration and seamless API integrations.
- Played a pivotal role in strategic business planning initiatives, leveraging insights to drive informed decision-making processes.
- Spearheaded the development of an advanced AI chatbot, employing a dynamic blend of JavaScript, CSS, Angular, and Python technologies to enhance user experience and elevate customer engagement levels.

Teaching Aide   Aug 2023 – May 2024
University of Illinois Chicago   *Chicago, IL*
- Collaborated with a professor to facilitate instruction in a Computer Science course, emphasizing MATLAB concepts.
- Orchestrated and supervised weekly lab sessions accommodating 30-45 students per week, while also providing comprehensive support during thrice-weekly office hours to address students' inquiries.
- Evaluated and provided feedback on class handouts, homework, and lab assignments for a cohort of 300-310 students, actively participating in weekly staff meetings to contribute to discussions on student progression and curriculum enhancement.

PROJECTS

Inventory Management System | *Python, Flask, PostgreSQL, Docker, REST APIs*
- Developed a RESTful API using Flask to manage inventory operations, including adding, updating, and tracking stock levels across multiple warehouses
- Designed and optimized a PostgreSQL database schema to handle complex relationships between products, suppliers, and warehouse locations
- Implemented an automated notification system to alert managers of low stock levels, leveraging scheduled tasks with Celery and Redis

Weather And Location APP | *Flutter, Dart, Android Studio, OpenWeatherMap API*
- Developed a mobile application to provide real-time weather updates and location information using Flutter in Android Studio.
- Integrated OpenWeatherMap API to fetch and display current weather conditions, forecasts, and temperature.
- Enabled users to search for weather information in different cities and locations.
- Ensured smooth performance and quick data retrieval through efficient API integration and state management.

TECHNICAL SKILLS

Languages: C++, Python, Java, SQL, JavaScript, HTML/CSS, dart
Frameworks: Node.js, Flask, Gurobi
Tools: Git, Docker, AWS, Google Cloud Platform, VS Code, IntelliJ
Libraries: Pandas, NumPy, Matplotlib, Gumbo