Ajwad Javed

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Experience

Software Engineer, Climate Partner – Munich, Bavaria   Jan 2024 – Present
- Contributed to launching a core internal application that fully replaced legacy software and was adopted company-wide within 12 months
- Employed Trunk-Based Development, Test-Driven Development, and Continuous Delivery practices in a monorepo to ensure robust code quality and accelerate deployment speed
- Delivered the reporting module to transform raw data into concise, actionable reports, and designed CSRD compliance features, enabling clients to meet ESG regulatory requirements
- Delivered high-impact features early in the product lifecycle, growing from junior to trusted contributor
- Fostered strong cross-team relationships and received positive peer and manager feedback for technical contributions, teamwork, and communication

Data Scientist, Truck It In – Islamabad, Pakistan   Jan 2022 – May 2022
- Transformed manual workflows into an automated framework by establishing an efficient data pipeline, leveraging Redash for data extraction, Python for processing, and Microsoft Excel for the final output
- Took initiative to contact the Government of Pakistan to open real-time access to the 26 million tons of cargo that landed at Karachi Port. Developed a new dataset for the company to be fed into a future model for price predictions
- Compiled data from Pakistan Stock Exchange using Selenium, creating an open-source dataset with essential details tailored for the company's call centre operations (github.com/ajwadjaved/PSX-Listed-Companies)

Research Assistant, Technical University of Kaiserslautern – Islamabad, Pakistan   Aug 2019 – Sep 2020
- Implemented Graph Neural Networks to extract tabular data from financial statements, creating an extensive dataset of 80,000 annual reports for ongoing lab research
- Collaborated with the University of Birmingham, offering insights on the new "AI for non-STEM students" MSc programme by suggesting relevant modules and projects for prospective students
- Teaching Assistant for BSc CS-250 Data Structures taught in C++. Managed a class of 50 students and designed their assessments and final examination, along with being a core part of the grading committee

Projects

Tourify – github.com/ajwadjaved/tourify
- Developed a full-stack React, Spring Boot, and MongoDB-based app to gamify travel in Manhattan with NFTs
- Used NFT Port API to generate real-time AI images from HuggingFace stored in an OpenSea blockchain wallet
- Built an XGBoost/Random Forest model predicting foot traffic with 93% accuracy in curated Manhattan locations
- Optimised the React frontend to get a Lighthouse score of 90+ and reduced startup load times by 45%
- Led a team of 5, collaborated using GitHub and additionally served as the Product Owner

CycleSense Dublin – github.com/ajwadjaved/cyclesense-dublin
- Developed CycleSense, an app delivering real-time Dublin City Bikes tracking and predictive station availability
- Implemented a Python Random Forest model for precise bike availability forecast across 116 bike stations in Dublin
- Configured Flask server to handle AWS EC2 server and MySQL RDS bucket requests with SQLAlchemy and Cron job
- Implemented scheduled SQL queries fetching OpenWeather API data every 5 minutes for robust database operations

Education

University College Dublin – MSc in Computer Science   Sep 2022 – Dec 2023
NUST, Islamabad – BSc in Accounting, Finance, and Computer Science   Sep 2018 – Jun 2022

Certifications

Amazon AWS Solutions Architect (SAA-C02)   Aug 2022