

Amna Mubarak

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Education

FAST NUCES

Sep 2020 – June 2024

BS Software Engineering

- **Electives:** Blockchain, DevOps, Design Defects and Refactoring, Software Testing
- **Extra Curricular:** Founding President - FAST Data Science Society (FDSS), DS Competition Head - Developer's Day

Experience

Share Mobility

Jan 2024 – Dec 2024

Software Engineer I (Full Time)

Columbus, USA (Remote)

- **Implemented Push Notifications:** Developed a cross-platform push notification system using FCM and Expo React Native, providing real-time updates on ride schedules, cancellations, and route changes.
- **CSV Automation:** Worked closely with the team to implement an LLM-based automation for parsing and processing CSV files, streamlining dispatcher workflows and reducing manual data entry, resulting in significant operational efficiency gains.
- **AI-Driven Call Automation Development:** Contributed to the development of AI-driven call automation solutions using FastAPI and OpenAI GPT-4 to handle ride bookings, cancellations, rescheduling, special requests, and provide real-time updates like driver ETA and ride details.
- **Email System Migration:** Led the migration of the email system from SparkPost to SendGrid, reconfiguring SMTP settings and optimizing API integrations to enhance email deliverability, improve system reliability, and reduce latency in transactional email processing.
- **Test Automation:** Developed test automation for the Share AI Assistant with OpenAI and Cypress, ensuring the reliability of AI-driven features and identifying potential issues before deployment.
- **Optimized Chat History Retrieval:** Engineered a module to efficiently manage and retrieve chat history by generating embeddings with OpenAI, storing them in Pinecone, and implementing optimized indexing for fast data retrieval.
- **Matillion Instance Migration:** Migrated data between Matillion instances, optimizing ETL processes and data loading workflows, improving data warehousing on Redshift and AWS S3, and reducing retrieval times while enhancing overall system performance.
- **Database Performance Enhancement:** Improved database performance by implementing advanced indexing techniques, optimizing query execution times and reducing I/O overhead for faster data retrieval and enhanced system efficiency.

Love For Data

June 2023 – Aug 2023

Software Engineer (Internship)

Karachi, Pakistan

- **HRMS Development:** Developed a system for HR to manage attendance and timesheets with secure authentication, while automating tasks and merging data for analytics, improving reporting efficiency.
- **Employee Tracking and Data Filtration Automation:** Implemented data filtration for efficient employee tracking, streamlining reporting processes and enhancing decision-making.

Projects

SyncFlow Recruitment Software (NestJs, NextJs, Flask, Redux Toolkit, Redis, PostgreSQL, Docker, AWS S3, Azure):

- **Streamlined Hiring Workflow:** Automates and customizes the entire hiring process, from job posting to candidate selection, enabling HR teams to track progress in real time.
- **Location-Based Hiring:** Integrates location-based functionalities to target candidates more accurately, improving recruitment efficiency by focusing on relevant regions.
- **Task Automation:** Automates repetitive tasks such as job description generation, candidate communications, and workflow recommendations, saving time and reducing manual errors.
- **Seamless User Experience:** Ensures smooth interactions for both HR teams and candidates through a well-organized interface with clear, real-time updates on hiring stages.

Skills

Frontend: ReactJS, NextJS, HTML, CSS (Bootstrap, Tailwind)

Backend: Node (Express, Nest), Python (Flask, FAST API, Django)

Programming Languages: Python, Javascript, Java, SQL, TypeScript

Databases: MySQL, SQLite, PostgreSQL, Pinecone

Tools: Git, Docker, Microsoft Azure, Azure DevOps, DuploCloud, AWS S3, Matillion ETL

Others: Generative AI, LLMs, Whisper, Firebase, Pytest, CircleCI, Selenium, Pandas, NumPy, Matplotlib, Seaborn