MOHAMMAD ARHAM

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DOB: 01- March - 2002
Portfolio: https://mohdarham.github.io/OIBSIP/

EDUCATION

Jamia Hamdard University, New Delhi 2020 - 2024
Bachelor of Technology (B.Tech) in Computer Science | CGPA: 8.26
St.Mary's Senior Secondary School 2020
Intermediate (PCM) | Percentage 70.6
St. Mary's High School 2018
High School | Percentage 76.6

SKILLS SUMMARY

- **Languages :** Python, SQL
- **Web :** Flask, JavaScript, HTML, CSS
- **Cloud & DevOps :** AWS (EC2, S3, Secret Manager, Amazon Redshift), Apache Airflow, Jenkins
- **Database :** PostgreSQL, MySQL, Xampp
- **Tools :** Git, GitHub, PyCharm, VS Code
- **OS :** Linux (Ubuntu), Windows
- **Others:** REST APIs, DSA in Python, ETL/Data Pipelines, JWT
- **Soft Skills :** Decision Making, Active Listening, Teamwork, Testing & Maintenance, Portable Code Writer

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WORK EXPERIENCE

Binary Semantics Ltd, Associate Software Developer — Aug 2024 - Present

- **Migrated file storage to AWS S3**, reducing database size by **60%** and enhancing performance.
- Developed a full-stack analytics dashboard using **Flask**, **Python**, **PostgreSQL**, and custom **API controllers** with role-based access.
- Developed real-time **FASTag vehicle tracking** with Google Maps API in the logistics module.
- Integrated an AI-powered **Rasa chatbot** to automate dashboard-based user interactions.
- Architected a config-driven, incremental ETL pipeline (using Python & **Airflow**) to replicate Odoo (PostgreSQL) data to **Amazon Redshift**, enabling near real-time data for analytics.
- Contributed to backend development and data workflows for an **online Auction Platform**.
- Integrated **external APIs** (ULIP, PAN, DL) for real-time data validation in logistics and finance workflows.
- Automated **database dump pipelines using Apache Airflow**.
- Automated ERP-related **API workflows**, significantly improving communication speed and reliability.

PROJECTS

Flask JWT Task Manager
- Developed a secure REST API for a Task Manager application using Flask and Flask-RESTful.
- Implemented user authentication and authorization using JWT to secure endpoints for creating, retrieving, updating, and deleting tasks.

Student Information Chatbot System
- Created a chatbot for answering student and college-related queries, improving response times and reducing administrative workload. Utilized AI, natural language processing, and web technologies for implementation.

Student Helpdesk System (Web-Based)
- Developed a system enabling students to request academic, technical, and administrative support from their educational institution.

Portfolio & E-commerce Website
- Designed and developed a responsive portfolio website featuring rich animations, full-screen mode, and a modern aesthetic UI. Also built a fully functional e-commerce platform enabling product browsing, cart management, and checkout functionality.

Quadtree Visualizer
- Developed a versatile quadtree library for efficient data visualization. Features include interactive visualization and collision detection, using C/C++, Cmake , and React. Applications include GIS, game development, and data analysis.

CERTIFICATIONS

- **Introduction to Database Systems** – NPTEL
- **Intellectual Property** – NPTEL
- **C / C++ / Java Training / Introduction to Computers Training –** IIT Bombay Spoken Tutorial
- **Fundamentals of Digital Marketing** – Google
- **Virtual Labs Webinar** – IIT Delhi