



MOHAMMAD ARFATH KHAN

B.Tech in Computer Science and Engineering
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🐙 GitHub Profile
🌐 LinkedIn Profile
🌐 Portfolio Website

Objective

Highly motivated Computer Science graduate with strong programming and analytical skills, seeking a full-time opportunity to contribute to innovative projects while learning from industry professionals.

Skills

- **Programming:** Java, Python, HTML, CSS, JavaScript, React
- **Backend & Databases:** REST APIs, JDBC, MySQL, PostgreSQL
- **Data Analytics:** Pandas, NumPy, EDA, KPI reporting
- **BI Tools:** Power BI (DAX, Dashboards), Excel (PivotTables, Power Query)
- **Cloud:** AWS (EC2, S3, IAM, VPC)
- **Tools:** Git, GitHub, VS Code, IntelliJ IDEA, Jupyter Notebook
- **CS Fundamentals:** SDLC, OOP, DSA, OS, Networking Basics

Projects

RecipeHub – Full-Stack Recipe Management System

Java, HTML, CSS, JavaScript

- Developed a full-stack recipe management application using Java REST APIs with secure role-based authentication.
- Implemented CRUD operations for recipes and ingredients, integrating frontend and backend using Fetch API and token-based authorization.
- Designed admin-only access controls, validations, and dynamic UI updates to ensure security and usability.

SmartSpend Tracker

Spring Boot, JDBC, Angular

- Full-stack personal expense tracking application designed to help users record, analyze, and visualize spending patterns through an intuitive dashboard and real-time analytics.
- Developed RESTful APIs using Spring Boot and JDBC DAO architecture, enabling secure and efficient CRUD operations on financial transactions.
- Implemented Angular-based dynamic UI with real-time updates, seamless backend integration, and responsive design for smooth user experience.

Online Exam Proctoring System Using AI

Python, OpenCV, TensorFlow

- Built an AI-based exam proctoring system using computer vision to monitor candidate behavior during online assessments.
- Implemented face detection and gaze tracking to detect suspicious activities.
- Integrated recording, logging, and anomaly detection mechanisms to enhance exam integrity.

AWS EC2 & S3 Cloud Deployment

Node.js, AWS

- Deployed a Node.js application on AWS EC2 and integrated Amazon S3 for scalable storage.
- Configured IAM roles, security groups, and VPC networking to ensure secure cloud operations.

Experience

AWS Intern

Sep 2024 – Oct 2024

Internship Studio

Remote

- Assisted in designing and deploying cloud infrastructure using AWS EC2 and S3.
- Worked with IAM policies and VPC configurations to maintain secure cloud architecture.
- Supported migration of on-premise applications to AWS, improving performance and cost efficiency.

- Strong analytical reasoning and ability to communicate technical insights clearly.