MUHAMMAD SADEED AAMIR

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Software Engineer with Expertise in Mobile Development and DevOps

EDUCATION

FAST National University of Computer and Emerging Sciences   Graduation: Jun, 2025

Bachelor of Science in Computer Science, CGPA - 3.16

Honors: Dean's List (3 semesters)

TECHNICAL SKILLS

Languages: Python, JavaScript, Dart, C++, C#, SQL, HTML/CSS
Mobile Dev: Flutter, Firebase, REST APIs
Web/Backend: Node.js, Express.js, React.js, MongoDB, MySQL
DevOps & Cloud: Docker, Jenkins, GitHub Actions, Kubernetes, Terraform, SonarQube, Nginx, AWS, GCP
Tools & Platforms: Git, GitHub, VS Code, IntelliJ, MySQL Workbench, Postman

Projects

InHomeTutors – Geofenced Tutoring App [FYP]
Tech Stack: Flutter, MySQL, AWS RDS, Firebase, Stripe, Gemini API, Video Conferencing SDK
- Developed a cross-platform mobile app using **Flutter** to connect students with nearby tutors, featuring a scalable **MySQL** backend on **AWS RDS**, real-time chat via **Firebase**, secure payment integration with **Stripe**, and in-app **video conferencing** for remote sessions.
- Implemented a core **GPS-based geofencing** feature to efficiently match tutors with local job requests and an **AI-powered chatbot** (using **Gemini API**) to generate practice quiz questions, enhancing the learning experience.

Cloud-Based Linux Media Server | GCP
Tech Stack: GCP, Ubuntu, Nginx, Python, SSH
- Deployed and configured a secure **Ubuntu VM** on **Google Cloud Platform (GCP)** to function as a media streaming server, secured with custom firewall rules and accessed via **SSH**.
- Evolved the server from an initial **Python-based HTTP** setup to a high-performance **Nginx** server to efficiently handle increased traffic and ensure scalable media delivery.

CI/CD Pipeline for Automated Deployment | Kubernetes
Tech Stack: Jenkins, SonarQube, ArgoCD, Kubernetes, Docker, Git
- Engineered a complete CI/CD pipeline to automate application delivery, using **Jenkins** for continuous integration, **SonarQube** for static code analysis, and **ArgoCD** for deployment.
- Implemented a **GitOps** workflow with **ArgoCD** to manage deployments to a **Kubernetes** cluster, ensuring the live environment consistently mirrors the state defined in the Git repository.

Expense Tracker – Flutter Application
Tech Stack: Flutter, Firebase
- Built a mobile personal finance application using **Flutter** for tracking expenses, enabling users to manage their finances on the go.
- Developed features for expense categorization, budget setting, and data visualization to provide users with clear insights into their spending habits.

Flutter Task Manager | Mobile App
Tech Stack: Flutter
- Developed a mobile task management application using **Flutter**, allowing users to organize and track their tasks efficiently.
- Implemented full **CRUD (Create, Read, Update, Delete)** functionality for tasks, including features for setting priorities and tracking completion status.

`Leadership / Extracurricular Activities

- **Teaching Assistant (Programming Fundamentals)**, FAST-NU: Mentored and graded assignments for 50+ first-year students in their foundational programming course.

- **Event Management Lead**, DAIRA 2021 & 2022: Coordinated logistics and team activities for the university's largest annual festival.