

# MUHAMMAD SADEED AAMIR

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## EDUCATION

**FAST National University of Computer and Emerging Sciences**

*June, 2025*

*Bachelor of Science in Computer Science CGPA, 3.2/4.00*

*Honors: Dean's List (3 semesters)*

## TECHNICAL SKILLS

**Languages:** Python, JavaScript, Dart, C++, C#, SQL, HTML/CSS

**Databases:** MongoDB, MySQL, PostgreSQL

**Mobile Development:** Flutter, Firebase, REST APIs

**Web/Backend:** Node.js, Express.js, React.js, MongoDB, MySQL

**Cloud & DevOps:** Docker, Jenkins, GitHub Actions, Kubernetes, Terraform, SonarQube, Nginx, AWS, GCP, Azure

**Tools & Platforms:** Git, GitHub, VS Code, IntelliJ, MySQL Workbench, Postman

## CERTIFICATIONS

- *Career Essentials in GitHub – Professional Certificate*
- *Introduction to Web APIs – Professional Certificate*
- *Git Essential Training*
- *Introduction to Prompt Engineering for Generative AI*

*Github and LinkedIn*

*LinkedIn Learning*

*LinkedIn Learning*

*LinkedIn Learning*

## 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

**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.

### Flask-Based GIF Web App

**Tech Stack:** Flask, Python, Giphy API, Jinja2

- Built a dynamic web application using Flask to interact with the Giphy API, enabling real-time GIF search functionality based on user input.
- Integrated server-side API requests with Flask and rendered results through Jinja2 templates, displaying a grid of animated GIFs based on search terms like “puppies” or “cats.”
- Strengthened understanding of API consumption, request handling, dynamic rendering, and MVC-style architecture using Python web frameworks.

### Containerized Web Application with CI/CD Automation

**Tech Stack:** Java, Maven, Docker, Docker Compose, Jenkins, GitHub Actions, SonarQube

- Containerized a full-stack Maven-based Java web application using Docker and Docker Compose, applying multi-stage builds
- Implemented a complete CI/CD pipeline using GitHub Actions for build and test Automation, and Jenkins for deployment orchestration, integrating SonarQube for static code analysis and code quality enforcement.

## LEADERSHIP AND COLLABORATION

- **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.