Mohammad Akram

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Summary

Passionate Undergraduate skilled in Python, Java, and C++ pursuing a B.Tech in Artificial Intelligence. Experienced in React, Spring Boot, FastAPI and RESTful APIs, with strong fundamentals in Operating Systems, OOPS, and Distributed Systems. Proficient in debugging, version control (Git), and containerization (Docker/Kubernetes).

Education

PBR Visvodaya Institute of Technology, Kavali, India   *Jul 2022 – May 2026*
B.Tech in Computer Science (Specialization: Artificial Intelligence)   GPA: 8.5/10
Narayana Junior College, Kavali, India   *Apr 2020 – May 2022*
Higher Secondary Education(Specialization: Maths, Physics, and Chemistry)   GPA: 9.8/10

Skills

Programming Languages: Python, JavaScript (ES6+), Java, C++(Basics)
Frameworks & tools React, Spring Boot, Spring JPA, JWT, OAuth2, FastAPI, Git, Postman
AI/ML: LangChain , RAG, Mediapipe, OpenCV (for gesture recognition)
Databases: MySQL, MongoDB, PostgreSQL, H2
CS Fundamentals: OOP, OS, DBMS, RESTful APIs,Microservices, Docker (basics), Agile teamwork

Professional Experience

Codetantra, Full Stack Java Intern   *Mar 2025 – Aug 2025*

– Contributed as Team Lead and Applied software engineering principles to develop scalable microservices using Spring Boot and MySQL

– Collaborated with cross-functional teams in an Agile/DevOps environment, integrating CI/CD pipelines and Docker for deployment.Designed and implemented RESTful APIs ensuring performance, reliability, and maintainability.Achieved 90%+ test coverage using JUnit, improving code quality and reliability.

Academic Projects

VeritasAI – MumbaiHacks 2025(Hackathon Project, Final round)   *Mar 2025 – Aug 2025*
Tech Stack: FastAPI, React, LangChain, OpenAI API, ChromaDB, PostgreSQL, JavaScript

– Developed VeritasAI, an AI-powered misinformation detection system integrating a Chrome extension, FastAPI backend, and React dashboard.

– Built an intelligent RAG pipeline with LangChain, ChromaDB, and OpenAI API to verify news and video content in real time using credible sources.

URL Shortener — Java Full Stack (Spring Boot + React)   *Mar 2025 – Aug 2025*

– Architected a distributed microservices system using Spring Boot 3, React, and Docker, implementing secure REST APIs.

– Integrated H2/JPA for persistence and implemented role-based authentication

Hand gesture recognition using Mediapipe - (Python, OpenCV, TensorFlow)   *Jan 2024 – Jun 2024*

– Developed a webcam-based gesture detection system using Google's MediaPipe (21 landmarks).

– Mapped hand gestures to system actions with 95%+ accuracy on real-time video, ran efficiently at 25 FPS on CPU.

Certifications

– MongoDB Certified Developer Associate
– GitHub Foundations Certification
– Postman API Fundamentals Expert
– Python Course Certification by Scaler
– Java Full Stack Developer - CodeTantra
– Google Gemini Certified University Student

Honors & Leadership

– Contributed to **GSSoC** on web development & ML projects. Effective communicator in cross-functional teams
– Participated in **MLH** events, Hacktoberfest completing challenges and earning swag.
– led cross-functional student teams in college for **tech presentations, seminars, and paper talks**.
– Secured **first place** and multiple accolades in tech contests. **Certificates**
– Led as student coordinator for workshops & coding contests. See my work of presentations at Aladdin-ppt
– Organized college fests, showcasing leadership & teamwork.