

Affan Imthiyaz Ahmed

Computer Science & Business Systems Engineering Student

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Career Summary

Computer Science and Business Systems undergraduate with hands-on experience building full-stack, AI-enabled applications using Java, Spring Boot, and modern JavaScript/TypeScript frameworks. Comfortable working across Linux environments, Docker-based deployments, and RESTful backend design, with a strong habit of using AI-assisted development tools to accelerate coding, debugging, and delivery. Focused on writing maintainable, secure, and scalable software as part of collaborative engineering teams.

Education

Canara Engineering College

B.E. in Computer Science and Business Systems

2023 – 2027

CGPA: 8.1

Technical Skills

Languages: Java, Python, C, C++, SQL, JavaScript/TypeScript

Frameworks: Spring Boot, Next.js, React, FastAPI, LangChain

Tools & Platforms: Docker, Git & GitHub, Linux/Shell, Keycloak, OPA, Prometheus, Grafana

Databases: PostgreSQL, MySQL, Supabase, Prisma

Soft Skills: Problem Solving, Analytical Thinking, Team Collaboration, Communication, Adaptability

Projects

Zero Trust Engine (ZTE) *(In Progress)*

Java · Spring Boot · Keycloak · OPA · Docker

Full-Stack Financial Governance System

- Currently **building** a **ZTNA-based** backend system enforcing zero-trust access policies for financial data, integrating identity management (**Keycloak**) and policy-as-code authorization (**Open Policy Agent**).
- Containerizing** the full stack with **Docker**, orchestrating multiple services including the database, auth server, and monitoring stack.
- Setting up **Prometheus** and **Grafana** for system observability, while resolving cross-platform deployment issues including Docker networking and JWT issuer mismatches.

Employee Leave Management System

Java · HTML · CSS · JavaScript

- Built** a full-stack leave management system in **Java** with a web-based front end for secure authentication, leave requests, and approvals.
- Implemented role-based access control** and **real-time status tracking** to streamline approval workflows and reduce turnaround time.

Scholar

Next.js 14 · TypeScript · Prisma · Supabase

Academic Second Brain for Engineering Students

- Designed and developed** a full-stack web platform giving engineering students a unified academic workspace, using a modern **TypeScript/React**-based frontend framework.
- Integrated** authentication, a Postgres-backed data layer (**Supabase + Prisma**), and a custom design system for a polished, responsive user interface.

Agentic AI Tech News Aggregator

Python · FastAPI · LangChain · Docker

- Developed** an AI-driven platform that aggregates and summarizes technology news using automated, **agentic workflows** for sourcing, filtering, and content generation.
- Built** modular **LLM pipelines** with **LangChain** for article extraction, topic classification, and summarization, backed by a vector database (**FAISS/Chroma**) for relevance ranking.
- Containerized** the application with **Docker** for portable, reproducible deployment.

Certifications

- IBM – Agentic AI: From Learner to Builder
- Salesforce – Agentblazer Champion Certification
- Introduction to Cybersecurity – Cisco
- Intro to AI and CS – Google
- Spoken Tutorial Training: Python, C, Git

Achievements & Participation

- Participated in NITTE Udhbava, a national-level technical hackathon, enhancing problem-solving under time constraints.
- Competed in a State-Level Hackathon at Yenepoya Institute of Technology, collaborating to design and present a solution within 24 hours.