

AROMAL AJ

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[Portfolio](#) ♦ [LinkedIn](#) ♦ [GitHub](#)

SUMMARY

Passionate and self-driven Computer Science undergraduate with a keen interest in Machine Learning, web development, and cloud technologies. Gained hands-on experience through impactful internships at Sedai, IITM Pravartak, and DCUBE Ai, contributing to real-world projects in performance benchmarking, system monitoring, and full-stack development. Skilled in Python, AWS, Django, and distributed systems. Eager to learn continuously and contribute meaningfully to innovative tech teams and challenging projects.

EDUCATION

TKM College of Engineering Kollam, Kerala, India	2022 - 2026
B. Tech in Computer Science and Engineering with honors in ML CGPA: 9.32	
Jawahar Navodaya Vidyalaya Trivandrum, Kerala, India	2020 - 2022
CBSE 12 th grade in Computer Science (95.8%)	

EXPERIENCE

Application Performance Benchmarking Across AWS Fargate Buckets (2025) — Sedai Inc.

Research Intern | June 2025 – July 2025

- Conducted performance benchmarking of containerized applications across multiple AWS Fargate buckets, analyzing startup time, latency, and throughput under varying deployment scenarios to evaluate consistency and variability.

PostgreSQL Security & Monitoring System (2025) — IITM Pravartak Technologies ([GitHub Link](#))

Developer | Feb 2025 – May 2025

- Design and build a security and performance monitoring system for PostgreSQL integrating Prometheus and Grafana.

AI: Transformative Learning with TechSaksham— Microsoft & SAP CSR ([GitHub Link](#))

ML Intern | Feb 2025

- Developed an SMS Spam Detection app using NLP (NLTK), supervised ML models, and Streamlit for deployment.

Web Development Intern — DCUBE Ai Systems and Services Pvt. Ltd. ([GitHub Link](#))

Intern | July 2024

- Designed and built a full-stack website using Django, PostgreSQL, and HTML/CSS.

PROJECTS

CareNexus (2024) ([GitHub Link](#))

Built a full-stack healthcare management platform using Django, ReactJS, and PostgreSQL for persistent storage. Enabled secure, real-time communication and appointment scheduling.

NutriAI (2024) ([GitHub Link](#))

Developed an AI-powered React application that generates personalized diet plans based on region, budget, and user preferences.

TECHNOLOGIES AND SKILLS

Languages: Python, C, Java, JavaScript, SQL

Frameworks & Libraries: Django, ReactJS, Tailwind CSS.

Tools & Platforms: Linux (Ubuntu), Windows, Prometheus, Grafana, Git, Git LFS, AWS, Docker.

Databases: PostgreSQL, MySQL, Oracle.

Concepts: Distributed Systems, Cloud Computing, Machine Learning, REST APIs, Full-stack Development, DevOps.

Soft Skills: Leadership, Problem Solving, Creative Thinking, Independent Learner.

AWARDS

- Qualified GATE 2025 in Computer Science.
- Merit Certificate for attaining highest marks in Mathematics in AISSE, 2020.
- Secured First position in KTU (B)ZONE Table Tennis Tournament (2024).

LEADERSHIP

- Web Team ACM TKMCE (2024)
- House Captain (2020-2022)
- Coordinator (2024) of BGMI Tournament conducted as part of Hestia'24.