Abdul Aziz M A

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Summary

Computer Science undergraduate with hands-on experience building, deploying, and maintaining backend systems. Experienced in API development, asynchronous job processing, database integration, and cloud deployment. Strong problem-solving foundation with 770+ LeetCode problems solved.

EDUCATION

St. Joseph's Institute of Technology 2023 – 2027
B.E. Computer Science and Engineering CGPA: 8.64/10

St. John's English School and Junior College 2021 – 2023
12th Grade 87.6%

Technical Skills

Languages: Java, JavaScript, TypeScript, Python
Backend: Node.js, Express.js, REST APIs, Webhooks, BullMQ, Asynchronous Processing
Databases: PostgreSQL, MongoDB, Prisma, Supabase
Cloud & DevOps: Docker, AWS EC2, GitHub Actions, Nginx, CI/CD
Core CS: Data Structures and Algorithms, OOP, DBMS, Operating Systems, Computer Networks
Design: Factory Pattern, Strategy Pattern, Modular Architecture, API Design

EXPERIENCE

Zuntra Digital — Full Stack Intern Jun 2025 – Aug 2025

- Developed an internal HR Management System to streamline employee operations across multiple workflows.
- Designed MongoDB schemas with Mongoose and implemented backend workflow logic across four core services.
- Implemented JWT authentication and Role-Based Access Control (RBAC) for protected APIs and role-specific operations.

PROJECTS

AutoDocs [Live Demo] [GitHub] *Node.js, Express.js, PostgreSQL, Prisma, BullMQ, GitHub Apps, Docker, Gemini Sep 2026*

- Built an AI-powered GitHub App that processes repository changes through webhooks, verifies requests with HMAC-SHA256, and generates documentation updates through Pull Requests.
- Created an extensible LLM integration layer using Factory and Strategy patterns, separating provider-specific integrations from application logic.
- Implemented Google GenAI prompt caching to reuse static codebase context and reduce repeated token consumption.
- Built an asynchronous BullMQ worker pipeline for repository processing, change classification, and documentation generation.
- Integrated PostgreSQL and Prisma for persistent workflow state and Docker for reproducible application deployment.

AlgoMentor [Live Demo] [GitHub] *Next.js, Supabase, Express.js, Node.js, Docker, AWS EC2, GitHub Actions Jul 2026*

- Built a backend aggregating LeetCode, Codeforces, and AtCoder data into a unified model for streaks, topic analysis, and contest analytics.
- Implemented mentorship workflows for email invitations, mentor groups, problem assignments, and automated completion verification.
- Deployed a Dockerized background worker to AWS EC2 using GitHub Actions CI/CD for scheduled data synchronization.
- Added retry and rate-limit handling for HTTP 429/503 responses to improve resilience against external API failures.

ACHIEVEMENTS

- Solved **770+ problems on LeetCode**.
- **1st Place** — CodeArena: Innothon '25 Debugging Competition.
- **1st Place** — Blaze-A-Trial Hackathon.
- **3rd Place** — Innovation Software Hackathon.

CERTIFICATIONS

Introduction to Git and GitHub Google
Data Structures and Algorithms Using Java NPTEL
Database Management Systems NPTEL