

Mohammad Mushraf Ahmed

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EDUCATION

Keshav Memorial Institute of Technology
B.Tech in Information Technology, CGPA: 8.5/10

Hyderabad, India
2022 – 2026

Narayana Junior College
Mathematics, Physics and Chemistry (MPC), Percentage: 97.4%

Hyderabad, India
2020 – 2022

EXPERIENCE

Software Developer Intern

Present

RapidCircuitry

Hyderabad, India

- Developed REST APIs for the Peditasense pediatric-monitoring platform using Node.js, Express, Prisma, and PostgreSQL, and refactored its notification pipeline off BullMQ and Redis to direct synchronous sends.
- Built a Spring Boot microservice for a bionic prosthetic-control platform using Spring Security, MongoDB, and Swagger-documented REST APIs.
- Developed mobile applications using Flutter, Kotlin, and Swift (SwiftUI) with BLE device communication, Firebase, and Hive integrations.
- Built core features on rapidcircuitry.ai (Python, FastAPI): a datasheet-extraction pipeline with hybrid BM25 and Qdrant RAG, and a schematic layout engine; shipped rc-verify, an MCP server for AI coding assistants.
- Contributed to an internal ERP built with Next.js, TypeScript, and Drizzle ORM over PostgreSQL; fixed a 2FA verification gap in the edge auth middleware and enabled row-level security across the app's Supabase tables.
- Set up Docker, Jenkins CI/CD, and Nginx for deployments on Render and Vercel with Cloudflare DNS; monitored services with Grafana and Prometheus, and used Apache Kafka for event-driven pipelines.

PROJECTS

Peditasense | *Node.js, Express, PostgreSQL, Prisma, Supabase, Firebase, Docker*

- Built REST APIs for a pediatric health-monitoring platform using Node.js, Express, Prisma, and PostgreSQL, with Firebase Cloud Messaging notifications; containerized with Docker.

RapidCircuitry.ai | *Python, FastAPI, Supabase PostgreSQL, Qdrant, MCP*

- Built a PDF datasheet-extraction pipeline (vision-language models via OpenRouter, hybrid BM25 and Qdrant RAG retrieval) and an automated schematic layout engine; shipped rc-verify, an MCP server for AI coding assistants.

RapidCircuitry ERP | *Next.js, TypeScript, Drizzle ORM, PostgreSQL, MCP*

- Contributed to an internal accounting and project-tracking ERP built with Next.js, TypeScript, and Drizzle ORM over PostgreSQL.

AI Video Summarization Tool | *Python, FastAPI, Whisper, BART, Gemini API, React*

- Deployment-hardened a team-built video and YouTube summarization platform (FastAPI, HuggingFace Whisper, BART, Gemini API, MongoDB, React) containerized with Docker.

Evidence Management System | *Node.js, Express, MongoDB, JWT*

- Built the Node.js, Express, and MongoDB backend – bcrypt/JWT authentication for three user roles (employee, police, advocate) and FIR case-management APIs – for a blockchain-backed evidence platform (Solidity on zkSync via Thirdweb, IPFS) built by a six-member team.

TECHNICAL SKILLS

Languages: Java, Python, Dart, Kotlin, Swift, JavaScript, TypeScript, SQL

Frameworks: Spring Boot, Next.js, React.js, Node.js, Express.js, FastAPI, Flutter, JUnit

AI/ML: HuggingFace Transformers, Whisper, BART, Gemini API, LLMs, RAG, TensorFlow, Keras, Pandas, NumPy

Databases: PostgreSQL, MongoDB, MySQL, Redis, Qdrant, Prisma, Drizzle ORM, Supabase

IoT & Messaging: MQTT, WebSockets, BLE, Apache Kafka, MCP

DevOps & Tools: Docker, Jenkins, Nginx, Grafana, Prometheus, Cloudflare, Vercel, Render, Firebase, Git, GitHub, Postman, Linux