

AKASH CHOUDHARY

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EDUCATION

B.Tech in Computer Science and Engineering, BML Munjal University *2023–2027(Expected)*

Relevant Coursework: Data Structures & Algorithms, OOPS, Computer Networks, Cloud Computing, Operating Systems, Database Management Systems

CGPA: 8.29

SKILLS

Languages: Java, C++, Python, TypeScript, JavaScript, Dart

Frameworks/Libraries: Node.js, Express.js, Flutter, React Native, Expo, Drizzle ORM

Databases: PostgreSQL, Redis, MySQL, MongoDB, Firebase, Supabase

Cloud & Deployment: AWS Cloud, Microsoft Azure, Google Cloud Platform, GitHub Actions, Vercel, Netlify

Tools & Software: Git, Docker (basic), Postman, VS Code, Figma, Google Play Console, App Store Connect

Concepts: Data Structures & Algorithms, Object-Oriented Programming, REST APIs, Database Design, Distributed Systems, Computer Networks

EXPERIENCE

Showoff Ventures Pvt. Ltd. — Software Developer (S1) *(Mar 2026 – Present)*

- Developed backend services and media delivery pipelines for a production social media platform serving 5K+ downloads and 2K+ active users.
- Optimized adaptive video delivery and media pipelines, reducing playback latency by nearly 50% through streaming and backend optimizations.
- Maintained backend services and deployment pipelines, ensuring reliable production performance and high availability.

UniSphere — Backend Engineer

Gurugram, Haryana (Apr 2025 – Apr 2026)

- Developing backend systems for a university platform (mess, internships, events, payments, biometrics) serving 3k+ users.
- Built scalable REST APIs handling 400–500 RPM using Node.js, PostgreSQL, and Redis caching for improved response performance.
- Implemented JWT-based RBAC and integrated payment and biometric services for secure, real-time workflows.

AroundYou — Mobile Developer

(Mar 2025 – May 2025)

- Developed cross-platform mobile features using React Native and Flutter for event bookings and reservations.
- Worked with Supabase services, including authentication, real time infrastructure, and gRPC-based edge functions.

PROJECTS

Software Supply Chain Attack Detection — Dependency Chain Analysis Framework

- Developed a dependency graph framework to identify malicious packages and transitive supply chain risks.
- Designed a multi-signal risk engine using metadata analysis, typosquatting detection, and dependency risk propagation.
- Integrated CI/CD security gates with automated dependency scanning and pre-deployment risk alerts.

Dense-IR System — AI-Powered Semantic Search and Personalization

- Built a semantic retrieval pipeline using Sentence-BERT embeddings and FAISS vector search to retrieve relevant documents, followed by ColBERT-style MaxSim re-ranking.
- Developed a hybrid ranking system combining vector similarity, BM25 lexical retrieval, and user-interest profiles with adaptive personalization weighting.
- Implemented click-based profile updates using exponential moving averages (EMA), FastAPI REST APIs, SQLite persistence, and a dashboard for analyzing retrieval results.

ACHIEVEMENTS & INVOLVEMENT

- First Runners Up at the GDG Sketch & Ship Hackathon for developing an innovative solution under rapid design and development constraints.
- Secured 1st Position at Innoquest Hackathon (Microsoft, Gurugram) for building *CharitEase*, a platform connecting NGOs and volunteers.
- Invited speaker at a college tech event on GitHub and development workflows.
- Solved 100+ DSA problems on LeetCode, achieving a contest rating of 1497 and ranking in the Top 45.41% globally.