Mayank Kumar

Mohali, Chandigarh | +919508359061 | mail.mayank001@gmail.com | linkedin.com/in/vortex-m | github.com/vortex-m

SUMMARY

Full-stack Software Development Engineer with experience building scalable backend systems and production-ready user interfaces using **Java, Spring Boot, Node.js, React, Next.js, Redis,** and **GraphQL**. Strong foundation in data structures, API design, SQL databases, and distributed systems.

EDUCATION

Chandigarh University, Mohali   *July 2023 – June 2027*
Bachelor of Technology (B-Tech) in Computer Science & Engineering   *CGPA: 7.52*

EXPERIENCES

DB NextGen (SDE)   *Jan 2025 – July* 2025
• Built scalable backend APIs with NestJS and Redis, and designed GraphQL schemas with Apollo for reactive data flow.
• Contributed to agile workflows including sprint planning, stand-ups, and feature delivery.
• Developed React + TypeScript interfaces with strong type safety and reduced bugs.

PROJECTS

1. Recurring Payment Firewall   *Dec 2025 – Jan 2026*
Redis, Node.js, Next.js, DB-Scan, K-Mean
  • Production-grade system for detecting recurring payment subscription abuse, dark patterns and malicious merchants.
  • Built a merchant risk firewall to assess subscription legitimacy using pricing, cancellation, and retry behaviour.
  • Exposed precomputed merchant risk scores via a low-latency public API (<500 ms) backed by Redis caching.

2. SmartTask Scheduler - Intelligent Background Job & Reminder System   *June 2025 – October 2025*
Java, Spring Boot, Quartz Scheduler, MySQL
  • Developed a background job scheduler supporting timed and recurring tasks with priority handling.
  • Exposed REST APIs for task creation, updates, and monitoring.
  • Used Quartz with MySQL persistence for reliable execution and recovery.

3. AlgoHub   *June 2025 – Ongoing*
Next.js, GraphQL, Prisma, Redis
  • Aggregated coding problems from multiple platforms into a unified interface.
  • Built GraphQL APIs and a scalable Prisma-backed data layer.
  • Optimized GraphQL queries and implemented efficient data fetching and caching to ensure fast, responsive page loads.

TECHNICAL SKILLS

• **Languages:** Java, C++, Python, TypeScript, JavaScript
• **Backend:** Java, Spring Boot, Node.js, REST APIs, GraphQL, Redis
• **Core CS:** Data Structures & Algorithms, OOP, Operating Systems, DBMS
• **Frontend:** React, Next.js, React Native, Apollo, Tailwind
• **Tools & Databases:** Git, Docker, n8n, GitHub Actions, MongoDB, MySQL, Prisma

INTERPERSONAL SKILLS

• Team leadership   • Collaboration • Adaptability

COURSES & CERTIFICATIONS

• AWS Certified Solutions Architect - Associate (Sep 2025) Link
• Spring and Angular Full-Stack Developer (Aug 2025) Link
• Introduction to Data Science (Cisco) (April 2024) Link
• Linux Fundamentals(Coursera) (Sep 2024) Link

EXTRA ACTIVITIES

Gravity Coders, Chandigarh University – Secretary (Jan 2025 – July 2025)
• Lead a 700+ member developer community to foster collaboration and skill development.
• Organized technical workshops, coding contests, and mentorship programs