

# Aksh Khurana

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**Software Engineer (early career):** 2 internships shipping production SaaS and fintech products; builds **scalable, reliable, high-performance distributed backend systems** (Node.js/TypeScript, C++, pub/sub eventing, containers, CI/CD); **1700+ LeetCode contest rating**. Graduating May 2027; available full-time from Jun. 2027 or as a 6-month intern from Jan. 2027.

## TECHNICAL SKILLS

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**Languages:** C++ (object-oriented programming), TypeScript, JavaScript, Python, SQL, Bash scripting

**Distributed Systems & Backend:** Node.js, Express.js, REST APIs, microservices, WebSockets, asynchronous processing, caching, rate limiting, JWT authentication, security hardening

**Messaging & Eventing:** Redis pub/sub, BullMQ job queues, Kafka (basics: topics, producers/consumers)

**Cloud & DevOps:** AWS (EC2, S3 object storage), Docker, GitHub Actions CI/CD pipelines, infrastructure automation, Linux, Git/GitHub

**Databases & Data Platforms:** PostgreSQL, MongoDB, ChromaDB (vector database), Prisma ORM

**Engineering Practices:** testable code, automated testing in CI, code reviews, Agile/Scrum, system design basics |

**Core CS:** DSA, OS, DBMS, Networks

## EXPERIENCE

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### Software Development Engineer Intern

Jun. 2026 – Jul. 2026

*Lucio AI (GenAI legal-tech SaaS), Bangalore (Remote)*

- Shipped **10+ production screens** and **15+ reusable components** (Next.js, TypeScript) for a GenAI legal-tech **SaaS platform**, integrating **streaming LLM responses** with **resilient** retry and error handling.
- Partnered with designers and backend engineers in a remote-first Agile team, cutting design-to-development turnaround by **~40%** through code reviews and API contract alignment.

### Software Development Intern

Aug. 2025 – Nov. 2025

*Exaflair Technologies (fintech), Mohali (Remote)*

- Launched a consumer **fintech digital wallet** (secure decentralized transactions, on-chain identity verification) on iOS and Android, taking it from prototype to **production release** in an Agile/Scrum team.
- Optimized API latency and caching to cut app load time by **30%**; collaborated with backend engineers to define and integrate **10+ REST APIs**, validating request/response contracts.

## PROJECTS

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### DocChat — RAG Document Q&A Platform

Jul. 2026

*Node.js, TypeScript, Next.js, PostgreSQL, ChromaDB, Redis, BullMQ, Docker, GitHub Actions*

[GitHub](#)

- Architected a **RAG** document Q&A platform as **2 decoupled services**: a **REST API** and an async **BullMQ worker** running a **4-stage ingestion pipeline** (parse, chunk, embed, index) that **scales independently**.
- Hardened the service with **JWT authentication**, per-user data scoping, and **rate limiting**; enforced consistent **data lifecycle management** and caching across **3 stores** (PostgreSQL, ChromaDB, Redis).
- Automated delivery with a **GitHub Actions CI/CD pipeline** running tests on every commit, plus **Docker Compose** packaging for one-command, ship-ready deployments.

### RELAY — Distributed Realtime Chat

Jun. 2026

*Node.js, Express.js, WebSocket, PostgreSQL, Redis, React, TypeScript*

- Engineered a **distributed realtime messaging system** — a REST service for auth and history plus a **WebSocket service** for live rooms and direct messages — backed by durable PostgreSQL history.
- Scaled delivery horizontally across multiple WebSocket instances with **Redis pub/sub eventing** for cross-instance fan-out; load-tested delivery paths for **reliability** and secured auth with bcrypt-hashed credentials.

## EDUCATION

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### Thapar Institute of Engineering and Technology, Patiala

Aug. 2023 – May 2027 (Expected)

*B.E. in Computer Engineering*

- Coursework:** Data Structures & Algorithms, OOP, Operating Systems, DBMS, Computer Networks

## ACHIEVEMENTS

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- LeetCode:** 1700+ contest rating (Global Rank 272 in Weekly Contest 455); **500+ DSA problems** solved.
- Goldman Sachs India Hackathon (GSIH):** All-India Rank 474 out of 15,000+ participants.
- ATF National Qualifier:** Top 450 out of 20,000+ participants; **Meta Hacker Cup:** Cleared Round 2.
- Smart India Hackathon 2025:** Cleared the internal college round from over 350+ teams.