

# Kanish Chadha

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## EDUCATION

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- **Thapar Institute of Engineering and Technology** Punjab, India  
*B.Tech – Computer and Electronics Engineering* **CGPA: 9.0 / 10** *Sep 2022 – May 2026*
  - Relevant coursework: Data Structures & Algorithms, Operating Systems, DBMS, Object-Oriented Design

## EXPERIENCE

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- **Oracle** Bangalore, India  
*Software Development Engineer Intern – ICON | Oracle Cloud Infrastructure (OCI)* *Jan 2026 – Present*
  - Designed and shipped a **Generative AI agent** that automated **OpenAPI spec authoring** across 5+ **cloud-scale microservice** endpoints from live **OCI** service contracts; partnered with downstream **integration teams** on schema validation and **release readiness**, cutting **Swagger documentation time by 80%**.
  - Shipped a **dynamic customer input drawer** in **React** as a core product component, rendering **6–9 context-aware fields** with **conditional SKU logic** triggered by country selection (e.g. Australia), adopted **product-wide** across all service configurations.
  - Expanded end-to-end frontend test coverage using **Playwright** and **Cypress**, growing UI regression coverage from **60% to 90%** and catching pre-deployment failures across the distributed system.
- **Freight Tiger** Bangalore, India  
*Software Development Engineer Intern* *June 2025 – Aug 2025*
  - Cut **API response time by 40%** in a **bulk-upload onboarding service** by reducing a **4-query fetch path** to a single primary-field lookup, improving performance across thousands of concurrent supply-chain onboarding records.
  - Eliminated duplicate transactions across **8 endpoints** by implementing **idempotency keys** across multi-tiered **microservice** calls, enforcing **data consistency** and improving platform **reliability** measurably in production.
  - Diagnosed and resolved 5+ **Apache Kafka** distributed-messaging failures causing silent data loss across logistics pipelines; instrumented end-to-end **pipeline health metrics** and built a **PostgreSQL**-backed KPI dashboard, reclaiming **5+ hours/week** of manual reporting.

## PROJECTS

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- **OneForAll – Collaborative Project Management Platform:** [View Project](#)
  - Built a **Jira-style collaborative workspace** using **Node.js**, **Express**, **MongoDB**, **React**, and **Socket.IO**, with **real-time chat**, **invite-code onboarding**, **4-stage tickets**, **4-level priorities**, and **2-mode submissions**.
  - Integrated an **AI summarisation agent** via the **Groq API (LLaMA 3)** that condenses task threads and conversation history into structured **action-item digests**, reducing context-switching overhead across multi-team workspaces.
  - Eliminated invalid-token replay attacks and enforced zero-trust access by integrating a **Redis-backed JWT blacklist** with **TTL-aligned expiry**, **bcrypt auth**, **RBAC**, and **structured audit logging**; reduced token-validation latency by ~60% vs. database lookups while enabling immediate logout across active sessions.
- **AgentGuard – MCP Security Gateway:** [View Project](#)
  - Implemented **deterministic MCP tool-call policy enforcement** benchmarked at **~0.005ms per decision** over **200K local evaluations**, covering **tool approval status**, **PII/secrets**, **SQL mutation**, **path traversal**, **external-recipient risk**, and **human-approval thresholds**.
  - Improved **auditability and reliability** by designing a **tamper-evident audit hash chain** (SQLite + Prisma) that logs every agent session, tool invocation, and policy decision as immutable flight-recorder events – providing full **root-cause traceability** on policy violations.
  - Architected a **multi-tier platform** using **React**, **Node.js/Express**, and the **TypeScript MCP SDK**, implementing **RBAC** and **human-in-the-loop approval workflows** with **real-time session streaming** via **Socket.IO**.

## SKILLS

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- **Languages:** Java, Python, C++, JavaScript, TypeScript, SQL
- **Frameworks & Libraries:** Node.js, Express.js, React.js, Socket.IO, Prisma
- **Messaging & Caching:** Apache Kafka, Redis
- **Cloud & Infra:** Oracle Cloud Infrastructure (OCI), Docker, Linux, CI/CD, ArgoCD, microservices, REST APIs
- **Databases:** PostgreSQL, Elasticsearch, MongoDB
- **Testing & Tools:** Playwright, Cypress, Git, GitLab, Power BI
- **AI & GenAI:** LLM APIs (OpenAI, Anthropic), prompt engineering, agentic workflows, MCP, RAG pipelines

## ACHIEVEMENTS

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- Solved **550+ DSA problems** on LeetCode/GeeksForGeeks – consistent practice across arrays, graphs, DP, and system-design patterns.
- Awarded **merit-based scholarship of Rs. 1,07,000** for outstanding academic performance (top of cohort).
- **Runner-up, Microsoft Learn Student Chapter Hackathon** – competed against 300+ participants.