Amrit Kumar

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Education

Visvesvaraya Technological University Sep. 2023 – May 2027
Bachelor of Engineering in Computer Science (Artificial Intelligence & Machine Learning) *Bengaluru, India*

- **CGPA:** 8.0/10 | **Honors:** Golden Key Honours Scholar | Top 10% of cohort
- **Relevant Coursework:** Data Structures & Algorithms, Database Management Systems, Operating Systems, Computer Networks

Experience

Backend Developer Intern Jul. 2026 – Present
GRKDesignTech Private Limited *Hyderabad, India*

- **Extending** the tenant onboarding and rent invoicing modules of **ColivManager**, a live co-living property-management platform, across **8 REST endpoints** in **Node.js** and **Express** — the **2** flows that move a resident from application to billed occupancy.
- **Stopped** malformed tenant applications from reaching the database by validating them at the **onboarding request layer**, replacing manual cleanup staff did after the record was written.
- **Cut** load time on the tenant list view staff open for every incoming application by **paginating** a query that had been returning the full record set on each request.
- **Merging** feature work into a shared production codebase alongside **25–30** engineers through branch-and-pull-request review, validating each endpoint in Postman against existing tenant data before merge.

Java Full-Stack Intern Feb. 2025 – May 2026
CodeForSuccess Pvt. Ltd. — full-stack training program *Remote*

- **Delivered 6** applications end to end over a **15-month** Java full-stack program, each spanning SQL schema design, a servlet REST layer, and a browser front-end.
- **Implemented** the harder **3** from scratch — a **BookMyShow-style** seat-reservation backend resolving concurrent booking contention, a **Google Docs-style** document backend sharing state across sessions, and a **Hotstar-style** streaming platform built to explicit **HLD and LLD** designs.

Projects

IRCTC App Backend – Railway Ticketing System Jan. 2026 – Jul. 2026
Java | Servlets | JDBC | MySQL | Apache Tomcat | Maven | BCrypt GitHub | Live

- **Built** a railway ticketing backend spanning **4 core workflows** — authentication, train search by source–destination pair, booking, and cancellation — as **Java Servlet** APIs over **JDBC** and **MySQL**, served from Apache Tomcat.
- **Secured** login by hashing credentials with **BCrypt** under servlet-managed sessions, keeping plaintext passwords out of the database and logs.
- **Automated** the booking lifecycle: generating each ticket, emailing it on confirmation, purging ticket files after **48 hours**, and releasing seats to inventory on cancellation so availability stays consistent.

SyncPad – Real-Time Collaborative Editor Jan. 2026 – Feb. 2026
React 19 | TypeScript | Yjs (CRDT) | Hocuspocus | WebSockets | Quill | IndexedDB GitHub | Live

- **Eliminated** edit-merge conflicts across **4 real-time channels** (document, cursors, presence, chat) by synchronizing state through **Yjs CRDTs** over WebSockets instead of operational transformation, holding **10 simultaneous editors** in one room without a server arbitrating keystrokes.
- **Removed** data loss on dropped connections by persisting the document to **IndexedDB** via `y-indexeddb`, so clients keep editing offline and replay buffered changes on reconnect.
- **Shipped 5 collaboration features** — live cursors, presence, workspace chat, audio messaging, and file sharing — behind a **zero-signup** room-code join, deployed across **2 hosts** (Vercel and Render).

AI Customer Support Assistant – LLM Triage Pipeline Mar. 2026
Python | Streamlit | LLM APIs | Sentiment Analysis GitHub

- **Designed** a **4-stage** triage pipeline (classification → sentiment → decision engine → response) that decides per query whether to answer automatically or escalate, instead of a single-prompt chatbot treating every ticket alike.
- **Gated** automated replies behind **3-class** sentiment scoring (positive/neutral/negative), routing strongly negative and critical tickets to **human handoff** rather than answering blindly.

Technical Skills

Languages: Java, Python, TypeScript, JavaScript (ES6+), SQL

Backend: Java (Servlets, JDBC), Spring Boot, Spring Security, Node.js, Express.js, REST API Design, WebSockets, Authentication & Session Management, BCrypt, Apache Tomcat

Frontend: React 19, TypeScript, Vite, Quill, HTML5, CSS3

Databases & AI/ML: MySQL, MongoDB, Redis, Kafka, IndexedDB, Schema Design, LLM API Integration, Sentiment Analysis, Streamlit

Tools & Practices: Git, GitHub, Docker, JUnit, CI/CD, Maven, Postman, Vercel, Render, AWS (EC2, IAM, CloudWatch), OOP, SOLID, DSA

Achievements & Certifications

Take U Forward: Solved **300+** data-structures and algorithms problems; ranked **136 globally** among all platform users.

Hackathons: **2nd place**, JSS Navotham | **Top 5**, Aikyam | Cleared **2 rounds**, Smart India Hackathon.

Certifications: AWS Cloud Practitioner Essentials (2025) | Claude 101 — Anthropic (2026).