

Lucky Verma

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EDUCATION

National Institute of Technology Karnataka, Surathkal
B.Tech in Computational & Data Science

August 2024 – April 2028
Karnataka, India

EXPERIENCE

Katha AI

Jan 2026 – Present

Project Associate

Industry Project under [Prof. Mohit P. Tahiliani](#), CSE Dept., NITK

- Developed backend services and REST APIs using **Django REST Framework**, **React**, and **PostgreSQL** for an AI-powered platform.
- Designed relational database schemas spanning **20+ entities** and integrated **Cloudflare R2** for scalable multimedia storage and delivery.

180 Degrees Consulting, NITK

Sep 2025 – Present

Developer

Mangalore, India

- Built an **AI-powered analytics dashboard** for an EdTech client with advanced filtering, performance analytics, LLM-powered insights, and interactive visualizations.
- Integrated **Cloudflare Workers** and **LiveKit Agent** to support scalable AI workflows and prod deployment.

PROJECTS

OpportuneAI | *FastAPI, LangGraph, Redis, RQ, PostgreSQL, Playwright*

Jun 2026 – Present

- Architected a modular job aggregation platform processing **100+ listings/day** from multiple providers with content-hash deduplication using **FastAPI** and **PostgreSQL**.
- Developed an asynchronous AI processing pipeline using **Redis Queue (RQ)** for scalable background task orchestration and LLM-based job extraction.
- Built **LangGraph**-based AI agents for resume-aware job ranking and human-in-the-loop application automation.

Railsplit — Smart Train Seat Finder | *FastAPI, Playwright, React, Redis*

Apr 2025 – Jun 2025

- Built an intelligent transit engine that finds confirmed train journeys through optimized split-ticket routing.
- Designed a custom **search-space pruning algorithm** using **ellipse-constrained station selection** for fast split-route optimization.
- Implemented an async backend using **FastAPI**, **Playwright**, **Redis**, Server-Sent Events, and Firebase Auth.

EXTRACURRICULAR ACTIVITIES

Web Enthusiasts' Club, NITK

Sep 2025 – Present

Systems SIG Secretary

- Promoted from **Systems SIG Executive** (Sep 2025–Mar 2026) to **Systems SIG Secretary**.
- Designed and managed the infrastructure for **WECCTF**, serving **400+ participants** using **CTFd** with support for static and **10+ Docker-based** challenges.
- Architected a **hybrid deployment** by combining institutional servers with a **remote Azure Docker Engine**, enabling scalable containerized challenge hosting.
- Built the **WECCTF Archive** and contributed to open-source **CTFd Docker Challenges Plugin**.

TECHNICAL SKILLS

Languages: Python, C++, Rust, SQL, HTML/CSS, JavaScript

Frameworks & Libraries: FastAPI, Django, React, LangChain, LangGraph, Flutter, SQLAlchemy

Databases: PostgreSQL, MySQL, SQLite, Redis

Cloud & DevOps: Linux, Docker, AWS, Azure, GitHub Actions, Cloudflare R2, Nginx, Git

Concepts: System Design, RAG, OOP, Operating Systems, Computer Networks, DBMS

ACHIEVEMENTS

- Secured **2nd Place** (40+ teams) at the Engineer's Day **Hackathon** with an **AI-powered healthcare platform**.
- Won **1st Place** (300+ participants) — Sherlocked CTF (Capture The Flag) competition, IET NITK
- Won **3rd Place** (450+ participants) — Incub8 CTF (Capture The Flag) competition, E-Cell NITK