KUNJ GUPTA

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EDUCATION

Bachelor of Technology (B.Tech) - Computer Science and Engineering (Artificial Intelligence)

2022 - 26 CGPA: 9.23

Institute of Engineering & Management, Kolkata, India (IEM)

EXPERIENCE

Goldman Sachs

Bengaluru, India May 2025 - Jul 2025

Software Engineering Intern

- Refactored 5000+ LOC legacy backend to a modern architecture using GitFlow, improving efficiency, reliability, & code quality.
- Reduced execution time from 11 minutes to 1.5 seconds (440× faster) by optimizing database queries and computation logic.
- Tech Stack: Java, Elasticsearch, Kibana, SLang, JUnit, GitLab.

Syntalix | [Letter of Recommendation]

Remote

Backend Lead

Mar 2023 - Dec 2024

- Engineered scalable backend microservices, including real-time data processing, caching mechanisms, and third-party API integrations, using distributed systems architecture and Agile, ensuring high scalability and performance, with 99.9% uptime.
- Spearheaded key backend features for an e-commerce platform using MERN stack, improving API response time by 40%.
- $\bullet \ \ Led\ a\ team\ of\ 2\ and\ integrated\ Google\ Ads\ campaign\ into\ CRM,\ adapting\ strategies\ to\ boost\ ROI\ by\ 35\%\ over\ several\ months.$
- $\bullet \ \ \text{Tech Stack: MERN, Fastify, NestJS, Postgres, Redis, Rabbit MQ, Stripe, Flask, Cloudinary, Firebase, TypeScript, Appwrite.}$

IEM IEDC Research Cell

Junior Researcher

Kolkata, India Dec 2022 - Sep 2023

- Designed a MERN server for real-time data processing and integration with drone systems & deep learning algorithms, trained
- Authored a patent, won 3+ project exhibitions, gained experience with microcontroller programming and drone prototyping.

to identify 20+ animal species, automating detection of deforestation, poaching, forest fires & wildlife monitoring.

PROJECTS

AI-Based Business Risk Intelligence System (FastAPI, Streamlit, MongoDB, Gemini API)

Website | GitHub | Apr 2025

- Spearheaded a distributed, multi-tiered AI system using asynchronous FastAPI and orchestration of 4+ specialized agents, enabling real-time insights via a conversational bot, cutting manual analysis by 64% and boosting risk accuracy by 25%.
- Directed a responsive **Streamlit** frontend with project creation, **historical chat retrieval**, and interactive dashboards visualizing **KPIs** like health score, risk breakdown, and timelines, accelerating **project evaluation** by **35**%.

Full-Stack Food Delivery Web App (Express.js, React, Cloudinary, MongoDB, Mailgun, Paypal) Website | GitHub | Nov 2024

- Orchestrated a food delivery app, implementing 20+ features like user auth, cart, order history, drafts, & profile updates.
- Implemented payment page features with PayPal integration & OpenStreetMap, improving location tracking accuracy by 15%.

Facial Recognition Door Security System (Debian OS, Python, DeepFace, OpenCV, Miniforge)

Demo | GitHub | Feb 2024

- Designed a Raspberry Pi-based facial recognition door lock system integrating deep learning algorithms with 96.5% accuracy.
- Enabled real-time communication with owner via SMS alerts and OTP verification for unrecognized faces sent within 2 seconds.

ACHIEVEMENTS

- Secured a SWE Internship at Goldman Sachs, selected among the top 50 candidates from over 1,00,000+ applicants (off-campus).
- Achieved Specialist (1494) rating on Codeforces, with a Global Rank of 218 in Codeforces Round 1043.
- Achieved a maximum rating of 1519 on CodeChef, with Global Ranks 389 and 521 in Starters 153 and 179.
- Earned a Finalist position in the YUKTI (MoE) Innovation Challenge 2023, ranking among the Top 100 startup ideas in India.
- Placed 2nd nationally for the Young Engineer's Award 2023 issued by Institution of Engineering and Technology (IET).
- Qualified PRMO 2019 Maths Olympiad Organized by HBCSE and MTA; ranked among the Top 300 regionally.

SKILLS

Languages: C/C++, Java, Python, JavaScript, TypeScript, Bash, HTML, CSS, SLang (Goldman Sachs)

Tools & Frameworks: Git/GitHub/GitLab, Git Flow, JUnit, NodeJS, ExpressJS, Fastify, REST APIs, Flask, FastAPI, Postman, Agile, Jira, Confluence, Docker

Databases: MongoDB, Redis, Elasticsearch, Relational - PostgreSQL, MySQL, Oracle SQL, IBM DB2

Cloud Services: Amazon Web Services (AWS), Render, Firebase, Cloudinary, Twilio, Mailgun, Google Cloud

Operating Systems: Microsoft Windows, Unix/Linux - Ubuntu, Kali, Bookworm (Debian)

Relevant Coursework: Data Structures & Algorithms, System Design, Operating Systems, Object Oriented Programming, DBMS, AI, Machine Learning, NLP, Cloud Computing, Computer Networks, IoT, MATLAB, Cyber Security, Complexity Analysis

EXTRACURRICULAR

- $\bullet \ \textbf{Technical Blog:} \ 'Printf/Cout \ in \ C/C++ \ GCC: \ Decoding \ the \ Confusing \ Outputs'. \ [Medium]$
- Completed an intensive 30-day long hands-on workshop on Cloud Computing and Generative AI by Google. [Certificate]
- Earned various accolades in Table Tennis (District-level), Basketball and Swimming (10+ years).