CHANDAN KUMAR

+91-8789629375 chandanues@gmail.com LinkedIn GitHub

EDUCATION

Indian Institute of Information Technology, Allahabad **2021-07 - 2025-07**
Bachelor of Techology in Information Techonology GPA: 8.09 (Till 7th Sem.) *Allahabad, U.P., India*

Gaya College, Gaya **2020-04 - 2021-04**
Class XII (State Board) Percentage: 88.8% *Gaya, Bihar, India*

RELEVANT COURSEWORKS

- Data Structures
- Computer Networks
- Database Management
- Object Oriented Programming
- Software Engineering
- Operating System
- Machine Learning
- Neural Networks

SKILLS

Languages/Databases: C/C++, Python, Javascript, NodeJs, MongoDB, SQL
Developer Tools: Linux, Docker, Git, VSCode, Intellij, Google Colab, Postman
Technologies/Frameworks: Express Js, Tensorflow, scikit-learn,Spring Boot, Microservices

EXPERIENCE

Buildwithpeers - *Software Engineer Intern* **2024-01 - 2024-04**

- Developed a scalable backend for a job application platform using, supporting high concurrent user traffic.
- Decreased debugging time by 50 percent and enhanced system monitoring efficiency by over 20 metrics utilizing Zipkin.
- Optimized system latency through the implementation of Eureka Server for load balancing and service discovery.

PROJECTS

IoT-Based Smart Parking System **2023-07 - 2023-12**

- Built a prototype using Raspberry Pi, ultrasonic sensors, and servo motors for automated parking management.
- Developed a microservices architecture with Mosquitto MQTT to streamline real-time data exchange and parking availability detection.
- Implemented an LED-based navigation system and automated servo-controlled entry gates for efficient parking guidance.

Parallel Matrix Multiplication with Thread Pool **2023-03 - 2023-04**

- Developed a multi-threaded parallel matrix multiplication system using a custom thread pool, improving computational efficiency by distributing workload across multiple threads.
- Implemented a thread pool manager to optimize task distribution and minimize overhead, achieving faster processing times for large-scale matrix operations.
- Ensured thread safety and synchronization by leveraging mutexes and condition variables, enabling concurrent execution without race conditions or data corruption.

Grow Planet **2023-01 - 2023-04**

- Developed an end-to-end platform for farmers, delivering comprehensive solutions from crop cultivation to marketing with a robust designed platform featuring 4 modular components: Plantopedia, Plant-Lab, Disease Predictor, & Crop Bid.
- Deployed Plant Lab using machine learning achieving 98 percent accuracy in crop recommendations for over 1,000 regions
- Boosted user engagement, enhancing access to agricultural knowledge for many farmers.

ACHIEVEMENTS

- Spreadheaded the development of our project **Grow Planet** for the Solve for India Hackathon, organized by **Google Cloud & AMD** advancing to the regional finals among 100+ colleges.
- Qualified for the semifinal of hackathon, **Flipkart Grid 5.0** & **Amazon Hackon 2024**.
- Contributed a technical article on **Buffer Management in C Programming** on GFG, achieving over **22,000** views.
- Coauthored multiple research papers on published in reputed conferences including **IEEE** and **Springer Nature.**