

# PRANAY KUMAR

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## PROFESSIONAL SUMMARY

Software Engineer proficient in C++, Java, Python, and AWS, with experience building scalable, fault-tolerant systems and optimizing performance. Strong in Data Structures, Algorithms, and System Design, with 600+ problems solved on LeetCode and CodeChef. Experienced in microservices development, REST APIs, and Agile methodologies.

## EDUCATION

**Bachelor of Technology**, National Institute of Science and Technology, Odisha  
Computer Science and Engineering ; **CGPA**: 8.24

2020 - 2024

## SKILLS

Languages	C++, Java, Python, C, SQL, JavaScript, HTML/CSS
Cloud & DevOps	AWS (EC2, S3), Docker, Linux/Unix
Frameworks & Tools	ReactJS, Node.js, Express.js, Next.js, MongoDB
Concepts	REST APIs, Microservices, Clean Code, Agile, Fault Tolerance, DSA, System Design

## EXPERIENCE

**Software Engineer**  
Amossys Consulting Services

July 2024 - Present  
Bangalore, INDIA

- Developed and deployed a custom CRM platform using Python, Odoo, and SQL to manage customer lifecycles, automate onboarding, and track performance.
- Built scalable Java microservices for Temenos T24 core banking, reducing transaction latency by 35%.
- Improved system performance by 25% through API optimization and clean code/OOP best practices.
- Worked on Ubuntu environment to deploy and manage Odoo CRM modules, integrating GitHub version control.

## PROJECTS

**Custom CRM Platform (Odoo):** Developed and deployed a scalable CRM system to manage customer lifecycle and performance tracking. Built analytics-driven admin dashboard with Odoo Studio and JavaScript components, integrated REST APIs for real-time data exchange, and optimized SQL queries to improve response times by 25%. Managed deployment in Ubuntu environment and implemented workflows via GitHub for seamless updates.

**Distributed URL Shortener :** Designed and implemented a distributed, low-latency URL shortener leveraging DSA principles in C++ and Java on AWS, incorporating database sharding and caching to reduce query execution time by 60%. Utilized Postman and log analysis to debug backend services and monitor API response times under high load, while prioritizing system resilience, incident isolation, and availability-first architecture.

**Advanced CPU Scheduling Algorithm :** Developed a custom CPU scheduling algorithm reducing context switching by 30%, using multi-threading, priority scheduling, and load balancing for optimal utilization. Incorporated disk scheduling and memory management concepts to simulate CPU-disk coordination, with unit tests and debugging hooks to validate thread performance.

## ACHIEVEMENTS AND TECHNICAL CERTIFICATIONS

- AWS (SAA) & Full-Stack Web Development | GeeksForGeeks
- LeetCode & CodeChef | Solved 600+ DSA problems, Max Rating: 1500+
- Data Structures & Algorithms (DSA) Specialization | GeeksforGeeks
- 1st Place Winner, ROBOKRANTI Competition | Top honors in robotics competition
- Open Source Contributor | Contributed to KWoC by IIT KGP
- Academic Excellence | School Topper in both Matriculation and Intermediate