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 800+ 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 2020 - 2024
Computer Science and Engineering ; **CGPA**: 8.24

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 July 2024 - Present
Amossys Consulting Services *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

- LeetCode & CodeChef | Solved 800+ DSA problems, Max Rating: 1500+
- Data Structures & Algorithms (DSA) Specialization | GeeksforGeeks
- 1st Place Winner, ROBOKRANTI Competition | Top honors in robotics competition
- Full-Stack Web Development & AWS(SAA) | GeeksForGeeks
- Open Source Contributor | Contributed to KWoC by IIT KGP
- Academic Excellence | School Topper in both Matriculation and Intermediate