Vansh Pratap Singh

vanshispratap@gmail.com | +91-8299225810 | Lucknow, Uttar Pradesh, India

EXPERIENCE

BITO | SOFTWARE DEVELOPMENT ENGINEER 2
Oct 2024 – Present | Pune, India

- Built an automated evaluation application for the core AI agent, cutting manual testing and accelerating release cycles by 20%.
- Identified and resolved critical product bottlenecks, significantly improving system stability and performance.
- Drove cost optimization by implementing features that slashed operational expenses by up to 60%.
- Authored in-depth R&D and competitive analysis reports, helping to retain key customers and secure new clients.
- Achieved 1st place in a company-wide hackathon for developing a high-impact internal application.
- **Tech used:** Python, Artificial Intelligence (AI), Prompt Engineering, Go, AWS, Docker, SQL, Git, Linux.

ADDA247 | SOFTWARE DEVELOPMENT ENGINEER 2
Jul 2022 – Oct 2024 | Gurugram, India

- Promoted from SDE-Intern (2022) to SDE-I (2023) to SDE-II (2024) through consistent high performance.
- Developed a real-time YouTube live class feature with polls, live chat, and leaderboards that supported 50K concurrent users and 2000 messages/second, resulting in an 18% conversion rate from YouTube to our application.
- Led microservice migration, architecting APIs with request coalescing to cut server and database load by 40%.
- Optimized a critical microservice by resolving JVM bottlenecks, increasing throughput by 4x.
- Lifted user engagement by 17% by engineering distributed systems for interactive classroom features.
- Awarded for outstanding technical contributions and significant improvements to system reliability.
- **Tech used:** Java, Spring Boot, Golang, Lua, SQL, Kafka, ElasticSearch, Redis, MongoDB, Kibana, Docker.

SAMSUNG R&D | RESEARCH INTERN
Nov 2021 – May 2022 | Remote

- Simulated 5G network behavior using ns-3 and C++, contributing to research and theoretical validation through custom simulation code.
- Researched 5G RAN energy challenges and documented key KPIs and optimization strategies.
- **Tech used:** Linux, Ns-3, C++.

PROJECTS

PAID CONTENT SEARCH | JAVA, SPRING BOOT, SPRING CLOUD, ELASTICSEARCH, REDIS, SQL, APIS
March 2023

- Built fast search, popular courses, and filter APIs for Adda247's paid content platform.
- Enabled users to easily navigate purchased content with accurate results and relevant recommendations.
- Improved user experience and company revenue through enhanced content discoverability.

EDUCATION

CHANDIGARH UNIVERSITY
BACHELOR OF ENGINEERING IN COMPUTER SCIENCE
Jul 2019 – Jul 2023 | Punjab, India

ACHIEVEMENTS & AWARDS

HACKATHON WINNER
1ST PLACE, BITO INTERNAL HACKATHON (2025)

BYOMKESH BAKSHI AWARD
AWARDED BY ADDA247 (2024)
For demonstrating strong problem-solving and technical skills.

RESEARCH WORK

ENERGY EFFICIENCY IN 5G RAN

- Authored "Analysis of Energy Consumption and Optimization Strategies in 5G RAN Elements," circulated internally to inform R&D initiatives.

TECHNICAL SKILLS

LANGUAGES
Python • Java • Rust • Go • C++ • Lua • SQL • HTML/CSS • JavaScript

TECHNOLOGIES & FRAMEWORKS
AWS • Docker • Kubernetes • Git • Linux • Spring Boot • Kafka • RabbitMQ • ElasticSearch • Redis • MongoDB • DynamoDB • FastAPI • Django • Gin • Actix • React • Svelte • Prompt Engineering • LLM • Artificial Intelligence (AI)

LINKS

LinkedIn:// **vanshpratapsingh**
GitHub:// **llxSKyWALKeRxll**
Portfolio:// **vps-portfolio.netlify.app**