Jai Shankar

Software Engineer

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📍 Bengaluru, India   ☆ https://github.com/jai0651

ABOUT ME

Results-driven Software Engineer with expertise in **backend and frontend development**, specializing in **Spring Boot, React.js, AWS,** and **microservices architecture**. Passionate about **designing and optimizing** scalable, high-performance systems using **cloud technologies** and **AI-driven solutions**. Skilled in rapidly **developing and deploying** impactful features that enhance **system performance** and **user experience**.

WORK-EXPERIENCE

Software Engineer I

Hyperbots Inc.

📅 06/2024 - Present   📍 Bengaluru, India

Worked as a backend developer, building notification systems and search/filter features to improve platform functionality and user experience.

- Designed and developed **scalable backend services**, including **notification and scheduling systems**, enhancing platform efficiency by **30%**.
- Built and optimized **event-driven microservices architecture** using **CQRS and CDC**, improving scalability by **50%**.
- Automated **data migration and workflows** with **Bash scripts**, reducing manual effort and saving **90%** of developer time.
- Optimized **database schema and query execution**, reducing response times by **40%** and improving system performance.
- Built **UI for internal tools and dashboards**, saving developer time by **50%**

Software Development Intern

2Sigma School

📅 03/2024 - 05/2024   📍 Remote, California, USA

Worked on developing a **multi-language browser-based IDE**, enhancing coding efficiency and security for users through a remote execution engine.

- Developed a **browser-based Python IDE**, increasing **coding efficiency for users by 35%**.
- Built a **secure remote execution engine**, reducing code execution errors by **50%**.
- Implemented key IDE features: **command console, input/output handling, and syntax highlighting**, improving developer productivity by **30%**.

Software Development Intern

Swachh.io

📅 05/2023 - 07/2024   📍 New Delhi, India

Contributed to the **development of mobile and web applications**, optimizing payment systems, affiliate marketing, and cloud infrastructure to enhance performance and scalability.

- Built a **Flutter-based affiliate marketing app**, increasing affiliate conversions by **20%**.
- Developed and maintained **payment and discount management systems**, reducing transaction processing errors by **35%**.
- Managed **AWS and Firebase servers**, ensuring **99.9% uptime** and enhancing platform reliability.

EDUCATION

B.Tech in Engineering and Computational Mechanics

Indian Institute of Technology Delhi

📅 2020 - 2024   📍 New Delhi, India

LANGUAGES

English
Proficient ●●●●○

SKILLS

Spring Boot	React.js	Next.js	Node.js
MongoDb	PostgreSQL	AWS	GCP
Machine Learning	Android Studio		Bash Scripting
Flutter	Jenkins	Docker	Apache Kafka
DMN/BPMN			

Java	C++	JavaScript	Python

PROJECTS

Bug Book (Social Platform for Book Enthusiasts)

🔗 Live Demo

- Developed an **Instagram-like platform for book lovers** using **Next.js and PostgreSQL**.
- Supports **10+ active users**, increasing engagement rate by **25%** with features like **book recommendations, reviews, and collections**.

AI-Powered To-Do Application

🔗 Repo Link

- Developed a **Node.js-based to-do application** with **AI-powered task automation**, enhancing workflow efficiency by **40%**.
- Implemented **AI agents** capable of analyzing task patterns to intelligently perform **task additions, deletions, smart prioritization and searches**, improving user productivity.

Python-GUI-in-Google-Colab-with-VNC-Chrome-Extension

🔗 Repo Link

- Created a tool enabling **interactive GUI applications in Google Colab**, increasing usability for programmers by **30%**.
- Integrated **VNC server and a Chrome extension**, reducing setup time by **50%**.

Numerical Error Reduction And Uncertainty Quantification With Deep Learning

🔗 Repo Link

- Leveraged **differentiable physics** and **deep learning techniques** to enhance the accuracy of a low-fidelity model.
- Achieved **50% improved results** without increasing computational time.

INTERESTS

💡 **Coding Challenges**
🔗 CF Profile
Active on Codeforces, CodeChef, and LeetCode

💎 **Building Software**
Exploring new technologies during weekends.

💎 **Playing Chess**
Love strategic gameplay and challenges.