

# VARUN

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## Summary

**Software Engineer** with experience in Java, the MERN stack and cloud technologies. Proven expertise in designing and developing scalable, high-performance web applications and AI-driven solutions. Adept at leading end-to-end software development lifecycles, from requirements gathering to deployment. Demonstrates strong problem-solving skills, a focus on performance optimization, and the ability to deliver impactful results with high efficiency

## Technical Skills

**Programming Languages:** Java, Python, JavaScript, Kotlin, C++

**Frontend Technologies:** React.js, SvelteJs, Streamlit, Tailwind CSS

**Backend Technologies:** Spring Boot, Spring MVC, Node.js, Express.js, FastApi

**Databases:** MongoDB, MySQL, Firebase

**Cloud & DevOps:** Docker, Linux, Shell Scripting

**AI/ML:** LLM Integration, Gemini API, llama.cpp, Scikit Learn

## Experience/Projects

**Nerve Sparks Pvt Ltd.**

**December 2024 - Present**

*Full Stack Developer*

*Gurgaon, India*

- Spearheaded development of Iris, an open-source Large Language Model application using llama.cpp
- Architected and implemented full-stack solutions using Kotlin for seamless integration
- Optimized system performance through C++ implementation, resulting in improved model inference

**Manav Rachna International University**

**September 2024 – December 2024**

*Web Developer*

*Faridabad, India*

- Managed the full project lifecycle, including requirements gathering, system architecture, development, and deployment.
- Implemented automated testing workflows, ensuring robust and reliable application performance.

**Cognify Pvt. Ltd.**

**April 2024–June 2024**

*Full Stack Developer*

*(WFH) Pune, india*

- Engineered Student Management System using Spring Boot and React.js
- Designed and implemented RESTful APIs.
- Integrated authentication systems and analytics tools improving user security and insights

## Personal Projects/Awards & Achievements

### Text-to-Image Generator - Imaginify

- Integrated Stable Diffusion model for realistic image generation.
- React.js frontend with user-friendly interface for entering prompts and viewing outputs.
- Users receive 5 free credits on signup; additional credit packs (20 or 100) available for purchase via PayPal.
- Technologies: Python, Hugging Face Transformers, Stable Diffusion, React.js, PayPal API.

### AI Question Bank Management System

- Enabled PDF upload and storage in a MongoDB database.
- Users can select the number and difficulty of questions (based on Bloom's Taxonomy) to generate.
- Integrated the LLaMA 405B open-source model for high-quality question generation.
- Implemented features to retrieve, visualize, and download questions as a PDF.
- Technologies: Python, Streamlit.

### NLP Based Language Translation Tool

- Automatically detects and translates languages from uploaded PDF documents.
- Supports speech-to-text and text-to-text translation using state-of-the-art NLP models.
- Video translation feature currently in development for full multimedia support.
- Technologies: Python (FastAPI), Svelte.js.

## Education

**Manav Rachna International University**

**June 2023 – Pursuing**

*Master's in Computers Application*

*Faridabad, Haryana*

**Maharshi Dayanand University**

**June 2020 - May 2023**

*Bachelor's of Computer Application*

*Rohtak, Haryana*