VAIBHAV MORE

AI Infrastructure & Backend Engineer | Full Stack AI Developer

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PROFESSIONAL SUMMARY

AI & Full-Stack Developer with experience building AI-powered applications, backend systems, and scalable web platforms. Skilled in Python, Java, Node.js, PostgreSQL, Docker, REST APIs, and LLM-based applications. Experienced in developing RAG systems, NLP solutions, computer vision applications, and cloud-deployable architectures. Passionate about AI infrastructure, distributed systems, and production-ready software.

TECHNICAL SKILLS

Languages: Java, Python, C++, JavaScript, TypeScript, SQL

Backend: Node.js, Express.js, Spring Boot, FastAPI, Flask

AI & ML: LLMs, LangChain, RAG, Prompt Engineering, Vector Databases, spaCy, TensorFlow, Scikit-learn, YOLO

Databases: PostgreSQL, MySQL, MongoDB, Neo4j

Cloud & DevOps: Docker, Git, GitHub, AWS S3, Cloudflare R2, Linux, Vercel, Postman

Concepts: REST APIs, Authentication, Microservices, AI Pipelines, Backend Architecture, Model Deployment

AI INFRASTRUCTURE SKILLS

REST API Design, Model Deployment, LLM Integration, Vector Search, Retrieval-Augmented Generation (RAG), Prompt Engineering, Embeddings, Document Processing, Knowledge Graphs, Containerization (Docker), Backend Architecture.

PROFESSIONAL EXPERIENCE

Full Stack Development Intern — HCL Technologies, Chennai (Virtual)
May 2025 – June 2025

- Developed enterprise web modules using Angular, Spring Boot, and MySQL.
- Designed and tested RESTful APIs for CRUD operations, following REST conventions and standard HTTP status codes.
- Integrated a MySQL backend for persistent data storage across modules.
- Collaborated in Agile sprints — sprint planning, stand-ups, and peer code reviews using Git-based version control.
- Improved application performance and maintainability through modular backend architecture.

FEATURED PROJECTS

SQL Talker | *Python, FastAPI, PostgreSQL, LLM, SQLAlchemy*
GitHub: https://github.com/VaibhavN17/sql-talker.git

- Built an AI-powered Natural Language-to-SQL system that converts user questions into executable SQL queries using LLMs.
- Developed a schema-aware backend API for query generation, execution, and result formatting against PostgreSQL.
- Implemented prompt engineering, query validation, and secure database interaction to prevent unsafe or malformed queries.

AI-Powered Business Automation Assistant | *Python, LLM, LangChain, FastAPI, REST APIs*
GitHub: https://github.com/VaibhavN17/AI-Powered-Business-Automation-Assistant.git

- Designed an AI assistant to automate business workflows using LLM-driven task orchestration.
- Built backend services for document processing, intelligent response generation, and workflow automation.
- Implemented modular AI pipelines for scalable integration with external systems.

AI-Powered Knowledge Graph System | *Python, React, Neo4j, spaCy, KeyBERT*
GitHub: https://github.com/VaibhavN17/AI-Powered-Knowledge-Graph-System-for-Intelligent-Academic-Learning.git

- Built a knowledge graph platform that extracts concepts from academic documents using NLP.
- Developed semantic search and interactive graph visualization with Neo4j and Cytoscape.js.

Smart Interview Analyzer | *Python, NLP, Machine Learning*

GitHub: https://github.com/VaibhavN17/Smart-Interview-Analyzer.git

- Built an AI-based interview evaluation system that analyzes candidate responses and generates structured feedback.
- Designed NLP pipelines for text processing, scoring, and performance analytics.

PrimeTradeAI Internship | *Python, Machine Learning, Data Processing*
GitHub: https://github.com/VaibhavN17/PrimetradeAI-Internship.git

- Developed AI-driven solutions focused on data processing and predictive analytics.
- Implemented reusable Python modules for model inference and workflow automation.

EDUCATION

- B.Tech Computer Science & Engineering, Sanjivani University, 2024–2027, CGPA: 7.89 (4th Year)
- Diploma in Computer Science — Matoshree Institute of Technology, Dhanore — 81.66% (2024)
- SSC — Kailas Patil Vidhyalaya, Vaijapur — 92.60% (2021)

RELEVANT COURSEWORK

Data Structures & Algorithms, Operating Systems, Database Management Systems, Computer Networks, Software Engineering, Machine Learning, Artificial Intelligence, Object Oriented Programming.

CERTIFICATIONS

- Oracle Certified Java Developer (Core Java, OOP, JDBC)
- Oracle AI & Machine Learning Course
- NPTEL: Fundamentals of Algorithm Design and Analysis

KEY ACHIEVEMENTS

- Developed multiple public GitHub repositories spanning AI and full-stack projects.
- Built production-ready AI and full-stack applications, including RAG, NLP, and computer vision systems.
- Designed scalable backend architectures using Node.js and Spring Boot.
- Experienced in deploying applications using Vercel and cloud storage solutions (AWS S3, Cloudflare R2).