

Python-first AI Backend Engineer with 3+ years of overall software development experience and ~2 years of hands-on experience building AI-powered backend systems and agentic workflows. Strong expertise in FastAPI, Django, RAG pipelines, and LLM orchestration using LangChain, CrewAI, and LlamaIndex, with exploratory work using Haystack and Google ADK. Experienced in delivering reliable AI-driven backend architectures in production and NDA-bound environments.

## TECHNICAL SKILLS

**Languages:** Python, JavaScript, TypeScript, Rust, Java, SQL  
**Backend:** FastAPI, Django, RESTful APIs, Async Python, Microservices  
**Ai And Agents:** LangChain, CrewAI, LlamaIndex, Agentic Workflows, RAG Pipelines, Prompt Engineering, Tool Calling  
**ML And Modeling:** PyTorch, Hugging Face Transformers, LoRA, LLM Fine-Tuning, NLP Pipelines  
**Databases:** PostgreSQL, MySQL, MongoDB, Redis  
**Devops And Cloud:** Docker, Git, CI/CD, AWS, GCP

## PROFESSIONAL EXPERIENCE

**Helixo** May 2025 - Present  
*AI Engineer* Kerala, India

- Designed and implemented Python-based backend services using FastAPI for AI-augmented commerce and automation workflows.
- Built LLM-driven systems using LangChain and CrewAI, focusing on agent orchestration, tool execution, and structured outputs.
- Developed backend pipelines for prompt management, validation, retries, and failure handling in production AI systems.
- Integrated third-party APIs and internal services into scalable Python microservices with a focus on performance and reliability.
- Collaborated with frontend teams when required, while owning core backend and AI logic.

**BeSuperHuman.AI** Nov 2024 - May 2025  
*Lead Software Developer* Kerala, India

- Architected Python-centric agentic systems for autonomous task execution ("AI that can run your computer").
- Designed and implemented backend orchestration logic for agent planning, execution, memory, and tool invocation using existing frameworks.
- Worked with LangChain, CrewAI, and LlamaIndex, and evaluated Haystack and Google ADK for retrieval and agent execution patterns in NDA-bound environments.
- Focused on reliability, logging, and predictable behavior of LLM-driven pipelines in production.
- Led backend AI system design while coordinating with frontend teams.

**BeSuperHuman.AI** Aug 2024 - Nov 2024  
*Software Developer* Kerala, India

- Developed backend components for AI agent workflows using Python and LLM frameworks.
- Implemented prompt engineering patterns, tool abstractions, and execution control flows.
- Contributed to API design and backend integrations supporting AI-driven features.

**Typogra** May 2023 - Apr 2024  
*Backend / Full Stack Developer* Kerala, India

- Built and maintained backend APIs and services supporting web applications.
- Worked on database design, API integrations, and backend business logic.
- Contributed to frontend features when required, while supporting backend performance and scalability.

**Freelance** Jan 2022 - Feb 2023  
*Frontend Developer* Kerala, India

- Built responsive web interfaces using modern frontend frameworks.
- Collaborated with designers to deliver production-ready UI components.

## KEY PROJECTS

**Hope NL** *Python | NLP | AI Agents | Machine Learning* View Project —

- Developed a Python-based NLP interface to bridge human intent and system execution.
- Implemented intent classification, text processing, and agent execution pipelines.

**Gemma 3 (270M) Fine-Tuning for Function Calling** *Python | PyTorch | Hugging Face Transformers | LoRA | Unsloth*

- Fine-tuned a lightweight LLM using PyTorch and Hugging Face Transformers.
- Curated a synthetic dataset to optimize function calling and structured JSON outputs.

**Agentic RAG Pipelines (Enterprise NDA)** *Python | LangChain | CrewAI | LlamaIndex*

- Designed retrieval-augmented generation pipelines combining document ingestion, retrieval, and LLM reasoning.
- Worked with multiple agentic frameworks under NDA-bound enterprise systems.

## EDUCATION

**College of Engineering Vadakara**  
*Bachelor of Technology - Computer Science*

## CERTIFICATIONS

**Full-Stack Web Developer** - LinkedIn July 2024  
**Become an AI Engineer** - LinkedIn August 2024