

Vivek Suyal

Python Developer

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SUMMARY

Python Developer with 4 years experience delivering AI-powered platforms using Django, FastAPI, Flask, and Vue.js for over 10 enterprise solutions. Integrated advanced AI tools (LangChain, LLaMA, Milvus) and built 200+ scalable REST endpoints—cutting response time by 60%. Specialized in cross-stack collaboration and rapid cloud deployment.

SKILLS

Programming Languages	Web Frameworks	Database Management	Front-end Frameworks and Libraries
<ul style="list-style-type: none">- Python- JavaScript	<ul style="list-style-type: none">- Flask- FastAPI- Django	<ul style="list-style-type: none">- Mysql- PostgreSQL- ElasticSearch- Redis- SQLAlchemy- MongoDB	<ul style="list-style-type: none">- Vue.js 2- Vue.js 3- Reactjs
Concurrency Techniques	Version Control	ETL Tools	AI & Machine Learning
<ul style="list-style-type: none">- Multithreading- Multiprocessing- Celery- Asyncio	<ul style="list-style-type: none">- Git- Bitbucket	<ul style="list-style-type: none">- PySpark- Pandas- Numpy	<ul style="list-style-type: none">- LangChain- NeMo- CrewAI- AutoGen- Vector Databases (Chroma, Milvus, FAISS)- NER
Containerization	AWS Services		
<ul style="list-style-type: none">- Docker	<ul style="list-style-type: none">- S3 Bucket- Cognito- Code Pipeline- Code Deploy- EC2 Instance		

PROFESSIONAL EXPERIENCE

Nstarx India pvt. Ltd. 08/2024 – Present
AI Engineer Hyderabad,India

AI Engineering:

- Released RAG systems with **LangChain**, **LLaMA**, and **FAISS** for context-aware question answering.
- Fine-tuned **NeMo** (NVIDIA) models on 50k+ samples to improve NLP accuracy.
- Delivered **NER** and **text classification APIs** with 1M+ calls/month, maintaining 95%+ precision.
- Built **agentic applications** using **CrewAI** and **AutoGen**, reducing internal research time by 70%.
- Indexed over 1M+ vectors using **Chroma**, **Milvus**, and **FAISS**, achieving <1s query latency.
- Enhanced **RAG** accuracy by 40% via reranking methods (**cosine similarity** + **cross-encoder**) for improved context selection.

Data Engineering:

- Created scalable APIs using **Flask**, **FastAPI** with **MongoDB (NoSQL)**, **PostgreSQL/MySQL (RDBMS)**, and **Redis** — handling over 500k daily requests.

- Engineered **event-driven pipelines** with **Kafka** and **RabbitMQ**, achieving sub-second data propagation.
- Leveraged **AWS IoT Core** with **MQTT** protocol for real-time communication; processed 100k+ messages/day from IoT devices.
- Scaled **background task processing** with **Celery**, executing 2M+ jobs per month.
- Built **GRPC-based services** and **PySpark jobs** to support ETL workflows managing 100+ GB of data per day.

DevOps:

- Designed and deployed **CI/CD pipelines** using **GitHub Actions**, **AWS CodePipeline**, **ECR**, and **EKS**, reducing deployment time by 40%.
- Managed production-grade **microservices** on **Kubernetes (EKS)** using **Helm**, improving uptime by 30%.

Frontend Development:

- Developed responsive web interfaces using **React**, **Vue**, **Bootstrap**, **Tailwind**, and **Vuetify**, ensuring screen-optimized user experiences across devices.
- Improved frontend development speed by 40% and boosted code reuse by 50% through **React** and **Vue** components.
- Handled **state management** using **Redux** (React) and **Vuex** (Vue) for complex application flows.

NMG Technologies

02/2023 – 08/2024

Python Developer

Gurugram, India

- Back-end:

- **Performance Improvement:** High-performance Python Web applications developed using **Flask-Restful** and **FastAPI** resulted in a 25% improvement in API responsiveness. Focus on the development and optimization of **REST APIs** for better responsiveness and scalability.
- **Efficient Database Transactions:** Adopted database operations sped up with **Async SQLAlchemy** over **FastAPI**, dropping by 30% the time for data transactions while ensuring efficient data handling for **REST APIs** interactions through asynchronous processing using **RDBMS** (**PostgreSQL** & **MySQL**).
- **Enhanced Search:** Integrated **ElasticSearch** for faster data fetches, which reduced the search time by 70%, thereby improving the overall system performance.
- **Cloud Integration with AWS:**
 - **Amazon S3** leveraged scalable and fault-tolerant storage solutions to handle/save huge data volumes.
 - **Amazon Cognito** implemented secure user authentication with fine-grained authorization, thus simplifying identity management for API access.
 - **AWS CodePipeline** and **AWS CodeDeploy** automated CI/CD pipelines, smoothing out deployment workflows and continuous integration and delivery.
 - Deployed and managed applications on **Amazon EC2** instances to provide reliable, scalable computing resources for web applications.

- Front-End:

- **Screen-Optimized Designs:** Employed **Bootstrap**, **Vuetify**, and **Tailwind** to create websites that seamlessly adapt to various screen sizes, ensuring an optimal user experience across desktops, tablets, and mobile devices.
- **Efficient Frontend Technologies:** Reduced development time by 40% and increased code reusability by 50% with **React** & **Vue**, leveraging reusable components for enhanced performance.
- **State Management:** Utilized **Vuex** for **Vue** and **Redux** for **React** to enhance data flow, ensuring robust state management and seamless interaction within web applications.

Data Engineer

Noida, India

- **Streamlined Email Processing:** Automated **email polling**, reducing case generation time by 25% in CRM.
- **Enhanced Scheduling Efficiency:** Introduced **scheduling**, resulting in a 20% increase in data processing efficiency.
- **Elevated UI-Driven Data Processing:** Re-engineered data processing by introducing UI-driven functionalities, resulting in a 30% reduction in raw data processing time; facilitated enhanced integration of databases for seamless operations.
- **Improved API Performance:** Developed and deployed **REST APIs** for CRM, cutting response time by 20%.
- **Seamless Front-end Integration:** Integrated front-end seamlessly, boosting user engagement by 15%.
- **Database Optimization:** Optimized **PostgreSQL** queries, enhancing database performance by 30% using SQLAlchemy.

EDUCATION

Master of Computer Application
Uttarakhand Technical University

06/2019 – 06/2022
Haldwani, India

Bachelor of Science
Kumaun University

07/2016 – 07/2019
Haldwani, India

ADDITIONAL INFORMATION

Certification:

- Completed the "Python Bootcamp from Zero to Hero" on Udemy, acquiring a comprehensive foundation in Python programming.

Leadership:

- Led a team during an IBM workshop project titled "Wildfire Detection," effectively managing tasks and collaborating with team members.

Leetcode:

- Solved over 150 LeetCode challenges in Java and Python, elevating analytical and algorithmic prowess and acquired 50 Days batch.