

# Vivek Suyal

## Python Developer

 viveksuyal25@gmail.com  7248446447  Hyderabad,Telangana  viveksuyal  viveksuyal

 viveksuyal

### 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
- Python	- Flask	- Mysql	- Vue.js 2
- JavaScript	- FastAPI	- PostgreSQL	- Vue.js 3
	- Django	- ElasticSearch	- Reactjs
		- Redis	
		- SQLAlchemy	
Concurrency Techniques	Version Control	- MongoDB	AI & Machine Learning
- Multithreading	- Git		- LangChain
- Multiprocessing	- Bitbucket		- NeMo
- Celery			- CrewAI
- Asyncio	- AWS Services	- PySpark	- AutoGen
	- S3 Bucket	- Pandas	- Vector Databases
	- Cognito	- Numpy	(Chroma, Milvus, FAISS)
Containerization	- Code Pipeline		- NER
- Docker	- Code Deploy		
	- EC2 Instance		

### PROFESSIONAL EXPERIENCE

#### Nstarx India pvt. Ltd.

08/2024 – Present

##### AI Engineer

###### 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**

06/2019 – 06/2022

Uttarakhand Technical University

Haldwani, India

**Bachelor of Science**

07/2016 – 07/2019

Kumaun University

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.