

Varun Khanzode *Python Developer*

✉ varunkhanzode@gmail.com 📞 7259192969 🌐 Varun Khanzode 📍 Bengaluru, Karnataka 📅 11/05/1998


PROFILE

- Dynamic software developer with 3 years of experience in backend development and a strong proficiency in Python, including frameworks such as FastAPI, Flask, and SQLAlchemy, with a knack for crafting high-performance web applications.
- Experienced in PostgreSQL database management and skilled in API validation using marshmallow. Excels in server configuration with Nginx and task queue optimization using Celery and RabbitMQ. A collaborative team player dedicated to delivering innovative solutions that drive business growth.



SKILLS

Python, FastAPI, Flask (REST), SQLAlchemy, Marshmallow, PostgreSQL, Azure Blob Storage, Nginx, Gunicorn, Celery, RabbitMQ, GIT, GITHUB, Flask SSE, AWS Lambda, APIGateway, SES, S3 Bucket, EC2, DynamoDB

WORK EXPERIENCE

09/2024 – present Bengaluru	Harvey Nash, Python Developer <ul style="list-style-type: none">• Developed and optimized RESTful APIs using Flask.• Contributed to frontend features, improving user functionality and experience.
08/2022 – 08/2024 Bangalore, India	Factana Computing, Python Developer  <ul style="list-style-type: none">• Architected and deployed RESTful and Open APIs using Flask and FastAPI, ensuring seamless communication and system reliability.• Designed efficient PostgreSQL database architecture, improving data storage and retrieval performance.• Developed robust authentication and authorization with JWT, securing API access and maintaining data integrity.• Implemented real-time data streaming solutions with Flask SSE APIs for live IIOT data visualization.• Optimized API performance and reliability with Gunicorn on Linux servers, enhancing request handling.• Secured APIs with Nginx and SSL, directed traffic via Unix socket, and collaborated with front-end developers for smooth integration.

PROJECT EXPERIENCE

08/2023 – 08/2024	FogWing Vision, Quality Inspection  <ul style="list-style-type: none">• FogWing Vision is AI-powered quality inspection software that uses cameras to detect quality issues in supplier materials, half-finished parts, and final products before delivery, enhancing productivity and quality compliance.• Designed and developed the complete backend architecture using Flask and FastAPI, creating REST and Open APIs for seamless communication, and integrated PostgreSQL for database management.• Utilized JWT for secure authentication and authorization, and implemented Server-Sent Events for real-time image rendering and live order counts.• Configured and managed Gunicorn on Linux servers, with Nginx as a secure API proxy using SSL, directing traffic via Unix socket.
10/2022 – 08/2024	FogWing Asset Plus Management, Smart CMMS Software for Smarter Maintenance  <ul style="list-style-type: none">• Developed and deployed an IoT and AI-enabled Smart CMMS application for real-time maintenance operations and reliability management. Leveraged advanced technologies to enhance operational efficiency and provide actionable insights.• Built the application from scratch, designing the PostgreSQL database and creating all required tables and relationships using SQLAlchemy migrate functionalities.• Designed and developed a complete API package in two layers: Open APIs with FastAPI and Internal APIs with Flask RESTPlus, applying validations with FastAPI's Pydantic and Marshmallow schemas for database validations.• Integrated ChatGPT Open APIs with FastAPI to auto-generate checklists for work orders, secured all APIs using Flask-JWT-Extended, and prepared Swagger documentation and Redoc pages for all Open APIs.
09/2024 – present	PARAG <ul style="list-style-type: none">• An Intel's chatbot designed to provide comprehensive intelligence related to microchip development and associated processes.• Developed a script using the docling library to process and extract data from PDF and DOCX files for prompt-based queries.

- Developed an automated evaluation script for Intel’s chatbot, integrating ChatGPT API to compute the average answer correctness score by comparing the bot’s responses against golden answers, enhancing chatbot performance assessment.

09/2024 – present

LTR (Long Term Retention Snapshot Tool)

- A tool to capture and manage metadata for tape-in processes, aiding long-term archival and restoration.
- Developed backend APIs using Flask and PostgreSQL to manage project metadata.
- Utilized SQLAlchemy for database operations.
- Contributed to frontend by implementing a download feature to export table data.

EDUCATION

2016 – 2020
Bengaluru, India

Bachelor of Engineering (B.E), Computer Science
Sir MVIT (VTU)

LANGUAGES

English, Hindi, Marathi