Manav Butani

Python Developer

Professional Summary:

Full-stack Developer with over **5+ years** of expertise in creating **strong backend** systems. I focus on building **scalable, fast,** and **optimised backends,** doing **data engineering,** and turning ideas into effective solutions. I tackle tough problems with creative solutions, mixing tech skills with fresh ideas. I've worked on end-to-end applications that are efficient, scalable, and easy to use, always aiming for high-quality results that align with business goals.

Technicals:

Sr. No	Domain	Technology
1.	Skills	Python, Django, Flask, JavaScript, HTML, CSS, FastAPI, AWS Services and Securities, Microservices, SQL, Docker, Kubernetes, Jenkins, CI/CD, Git, Jira, Parallel Processing, LangChain
2.	Database	PostgreSQL, MySQL, MongoDB, Airflow, MinIo, Iceberg, Snowflake, RDS, S3, AzureBlob
3.	Operating System	Windows, Linux/UNIX, Mac

Projects

1. GolfDaddy:

GolfDaddy is an online platform designed to help golf enthusiasts easily discover, compare, and book golf lessons with certified instructors. The website provides detailed coach profiles, transparent pricing, and user reviews to support informed decision-making. With a clean and intuitive interface, GolfDaddy simplifies the process of finding the right golf trainer based on skill level, location, and learning goals. The platform aims to make golf training more accessible and convenient for players of all ages. It brings together professional coaches and learners in one streamlined booking ecosystem.

Functionality:
1. Login Mechanism
2. ElasticCache and WAF Shield to avoid DDoS
3. Customer Feedback using Klaviyo
4. Pre-signed S3 URLs to make the upload faster
5. Multi-Core GPU Processing to make the simulation process parallel

Technology Stack: Django | AWS EC2 | Elastic Cache| Cloud Watch | Google Authentication | Nvidia GPU Architecture | Klaviyo | Parallel Processing

2. QueryBook

QueryBook is a unified platform designed to manage, track, and optimise customer queries across

multiple channels. It enables teams to organise conversations, automate responses, and improve communication efficiency using smart workflows. With a clean dashboard, users can monitor ticket statuses, assign tasks, and collaborate seamlessly. QueryBook aims to reduce response time, enhance customer satisfaction, and streamline support operations for businesses of all sizes. Its modern, user-friendly interface makes managing customer interactions simple and efficient.

Technology Stack: FastAPI, SQLAlchemy, Docker, Prometheus, Celery, SQL, ElasticSearch, Socket-IO, Jenkins

Functionality:
1. Drag-Drop SQL Query Generation
2. Custom Metastore Integration(Lakekeeper, Hive)
3. Custon Query Result Store Support(Blob, S3)
4. Custom Engine Support(Trino, Presto, Spark)
5. With an appropriate policy, buy and sell data
6. Various quality checks to decide the pricing of data
7. Query Generation, Explanation, ... Using OpenAI
8. k8s-proxy

3. Storewise - AI Chatbot

Overview: Storewise is a seamless platform for managing a retail store's communications, tasks, and insights. I contributed to this project by handling its serverless architecture using AWS Lambda functions, API Gateway, and other serverless AWS services. Storewise also features an intelligent AI chatbot designed to assist with a wide range of functionalities, making it ideal for businesses aiming to streamline their operations. Its key features include real-time news integration, image generation, weather details, VCard generation, CSV generation, and image analysis.

Role :- Full Stack Developer & DevOps Engineer
Technologies:- Python, Django, ReactJS, LangChain, VectorDB, AWS Lambda, AI Chatbot, Image Processing, PostgreSQL, S3

This system enhances store management through smart, conversational AI support

4. Dalli - 4

Dalli-4 is an AI-powered image generator that transforms text prompts or photos into creative artwork within seconds. Whether you want a dreamy fantasy scene, a stylised portrait, or a creative wallpaper, Dalli-4 offers multiple art styles like anime, pop-art, watercolour, neon, and more. You can upload a photo or use a simple text prompt, and the app will generate unique, high-quality images using advanced AI models.It also includes tools for image-to-image transformation, background removal, and creative filters, so you can easily remix or enhance existing photos.Dalli-4 is designed to be user-friendly — no design skills needed — making it a good choice for artists, creators, or anyone exploring creative AI.

Technology Stack: OpenAI, Langchain, HuggingFace

Functionality:
1. Home Interior Design Using Artificial Intelligence
2. Real and Reel Image Calculator
3. Artificial Intelligence as a Cloth Designer
4. Ghibali Image
5. Prompt to Video Generation
6. Face Swap
7. Prompt to Image
8. Image Enhancement

5. SMCTrader – A Comprehensive Stock Market Analysis and Trading Platform

Overview: Developed **SMCTrader**, an advanced stock market analysis and trading platform focusing on scalability, efficiency, and advanced functionality to cater to traders and investors. This platform was built to provide robust tools for analysing market trends, backtesting strategies, and managing risk in dynamic behaviour.

Role:- Software Engineer

Acquired Skills:- Parallel Computing, Data Structures and Algorithms, Basic DevOps

Technologies:

- **Framework**: Python, Django, Flask API
- **Deployment**: Docker, Kubernetes, Jenkins, GitHub Webhooks
- **Parallel Computing**: Dask, Modin, Ray, Pandas, NumPy

Key Features Developed:

1. **Indicators Support**:
   Designed and implemented various technical indicators for detailed market analysis, helping traders make informed decisions.
2. **Multiple Demat Account Integration**:
   Enabled seamless integration of multiple Demat accounts to provide users with a consolidated view of their portfolio and transactions.
3. **Advanced Backtesting Tools**:
   - **Fast-forwarding Simulation**: Created tools to simulate real-time trading by accelerating historical data playback.
   - **Historical Backtesting**: Developed a comprehensive backtesting engine to evaluate trading strategies against historical data for accuracy and performance.
4. **Strategy Builder**:
   Built a user-friendly interface for creating, testing, and deploying trading strategies without requiring extensive coding knowledge.

5. **Risk-Reward Manager**:
   Developed tools for analysing risk-reward ratios to optimise trading decisions and minimise losses.
6. **Potential Breakout Stocks Detection**:
   Engineered algorithms to identify stocks with high breakout potential based on real-time and historical data.
7. **Seasonal Historical Data Insights**:
   Provided tools to analyse seasonal patterns in stock performance to uncover long-term market trends.
8. **Sector-wise Analysis**:
   Designed features to analyse stocks across sectors, aiding users in making sector-specific investment decisions.
9. **Detection of Manipulated Stocks**:
   Implemented algorithms to identify irregularities and potential manipulations in stock prices using pattern recognition techniques.
10. **Market Sentiments Analysis**:
    Integrated sentiment analysis of news and social media data to gauge market mood and its potential impact on stock movements.

6. Smart Scrapper

Overview: AI agents can dynamically answer user-specific questions by extracting and interpreting details from a given website URL. The application focuses on in-depth content and leverages modern web scraping tools to provide tailored insights based on user prompts.

Role: Python/ReactJS development

Acquired Skills:- Prompt Engineering, Natural Language Processing, Dynamic Scraping, Authentication Paradigm

Technologies:

- **Framework**: Python, Django
- **Deployment**: Docker, Render, Railway, Fly.io, GitHub Actions
- **Web Scraping**: BeautifulSoup, Requests, Playwright, Selenium
- **Data Validation and Serialisation**: Pydantic

Key Features Developed

1. **Intelligent Question Answering**:
   Developed an AI-powered system that answers user-defined questions by analysing content from a website's homepage.

2. **Seamless Website Analysis**:
   The platform automatically extracts and processes website content, delivering meaningful insights in an easy-to-understand format without requiring technical expertise.
3. **Secure and Reliable Access**:
   Integrated a robust authentication mechanism using a secret key, ensuring that only authorised users can access the service.

Work Experience

1. Ashirwad Infotech Software Engineer (December 2023 - Present),
Hands-on technology: Docker, SQLAlchemy, SQL, Python(Data Structures and Algorithms), Flask, FastAPI, Prometheus, Dask, Modin, Ray, Celery, ElasticSearch, SocketIO, Jenkins, Alembic Migrations, AWS-Lamda, Langchain, s3-bucket, DigitalOcean, Machine Learning, Great-Expectations, DuckDB

2. Software Engineer, Crest Data Systems · (Mar 2022 - Nov 2023)

3. Full-stack Developer Raventechnolabs · Internship (Jun 2020 - Mar 2022)
Python Internship