

Md Shafak

📧 github.com/shafak07 | 🌐 linkedin.com/in/shafak07 | 📞 +91 8340410491 | ✉ ayaanmohammad170@gmail.com

SUMMARY

Backend Developer & AI Prompt Engineer with expertise in architecting scalable, distributed systems and optimizing LLM-driven workflows. Proficient in **Python, Flask, FastAPI, PostgreSQL, Redis, AWS, Docker, Microservices, and System Design**. Experienced in building fault-tolerant APIs, reducing latency through caching & query optimization, and deploying cloud-native solutions. Skilled in designing, testing, and fine-tuning AI prompts to improve model accuracy, edge case handling, and inference performance in production environments.

TECHNICAL SKILLS

Languages: Python, JavaScript (Node.js), Java, C++, SQL, HTML/CSS

Frameworks: Flask, FastAPI, Django, Express.js, Bootstrap

Databases: PostgreSQL, MySQL, MongoDB, Redis

DevOps & Cloud: Docker, Kubernetes, AWS (EC2, S3, RDS, Lambda, CloudWatch), GitHub Actions, Jenkins

Concepts: Distributed Systems, REST API, Microservices, Authentication (JWT, OAuth2), Caching, Event-Driven Architecture, Data Structures & Algorithms, OOP, SDLC

Soft Skills: Problem Solving, System Thinking, Collaboration, Communication

EXPERIENCE

Senior Associate - Backend Developer (AI/LLM Systems)

Oct 2024 – Present

Innodata Inc.

Noida - India

- Developed and maintained Python-based backend services to manage and process requests for large language model (LLM) applications.
- Implemented robust error handling and logging to capture and address edge cases, improving system stability in production environments.
- Optimized API endpoints and backend workflows to reduce latency and enhance data processing speed for high-volume inference requests.

Application Developer

May 2021 – Aug 2021

EICT IIT Kanpur

Kanpur

- Built Python and Node.js backend services to support music streaming features, handling media requests and playback control.
- Implemented SQLite-based local storage with data synchronization logic to enable reliable offline access and seamless user experience in low-network conditions.

Quality Engineer – Python Prompt Systems

March 2022 – May 2024

Outlier.ai

Freelance

- Developed and executed Python scripts to validate prompt execution workflows for large language model (LLM) backends.
- Created automated test cases to detect edge cases and ensure consistent model outputs across various datasets.
- Optimized and refactored SQL queries within the evaluation pipeline, improving backend response times and data retrieval efficiency.

PROJECTS

Aithris – Scalable Data Annotation Platform | *Flask, PostgreSQL, Redis, AWS, Docker, FastAPI*

2024

- * Engineered a distributed backend architecture using Flask and FastAPI microservices to handle 10K+ daily annotation tasks with horizontal scaling.
- * Implemented secure user authentication via Google OAuth 2.0 and JWT, improving login success rates and reducing onboarding friction.
- * Optimized task retrieval using Redis caching and background workers, cutting API latency by 60% and improving throughput.
- * Deployed on AWS (EC2, RDS, S3) with Dockerized containers and CI/CD pipelines via GitHub Actions, ensuring zero-downtime updates.
- * Designed PostgreSQL schemas and indexing strategies for high-volume concurrent read/write operations.

Ticket Booking System <i>React.js, PostgreSQL, Node.js, Express</i> <ul style="list-style-type: none">* Built a backend API with transactional integrity for 2K+ concurrent seat bookings, ensuring ACID compliance.* Implemented role-based access control and rate-limiting middleware to enhance system security and prevent abuse.	2023
PG Finder Platform <i>PHP, MySQL, JavaScript</i> <ul style="list-style-type: none">* Developed a dynamic property listing and booking backend with search filters and secure payment processing.* Optimized SQL queries and implemented database normalization to improve query speed for 500+ listings.	2021
Weather Tracker API Service <i>Flask, OpenWeather API, Redis</i> <ul style="list-style-type: none">* Built a backend API that retrieves and caches real-time weather data with sub-second response times using Redis.* Integrated rate-limiting and error-handling mechanisms to ensure API reliability under high load.	2022

EDUCATION

B.Tech in Computer Science and Engineering (CGPA: 8.36) <i>B P Mandal College of Engineering, Madhepura</i>	2020 – 2024
---	-------------

AWARDS AND CERTIFICATIONS

Cisco: Python Programming (Code Rider), CCNA, Cybersecurity Essentials
NPTEL: Java Programming, C Programming
Competitive Programming: Solved 200+ problems on LeetCode
Hackathons: Participant in Smart India Hackathon 2022