

AHSAN ASHRAF

Senior Python Backend Developer

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Professional Summary:

Senior Backend Engineer focused on designing and engineering high-load AI SaaS applications and core database infrastructure. Expert in optimizing APIs for sub-100ms latency, scaling asynchronous data workflows, and stabilizing complex cloud architectures. Proven track record of managing production-level data streams and deploying resilient backend logic across fast-paced environments.

Professional Experience:

AI Technical Evaluation Specialist

Outlier AI

10/2025 - Present

- Work on AI training, evaluation, and benchmark tasks involving code reasoning, software engineering, and CLI based workflows.
- Create and review repository based benchmark tasks as both a Submitter and Reviewer.
- Validate task instructions, test cases, Docker environments, metadata, patches, and reference solutions for accuracy and reproducibility.
- Evaluate AI generated outputs for correctness, reasoning quality, requirement compliance, and overall solution reliability.
- Design and build scalable systems using FastAPI, Django, Flask, React, and cloud native architecture to support AI training and evaluation workflows.
- Develop secure REST, GraphQL, and gRPC APIs for dataset processing, model evaluation, task management, and automated validation.
- Build Docker based workloads, Kubernetes native services, Terraform managed infrastructure, and CI/CD pipelines for reliable AI training environments.
- Integrate OpenAI, LangChain, RAG, and LLM driven workflows into intelligent automation, evaluation, and benchmark systems.
- Contribute to data annotation, prompt evaluation, data validation, test design, and AI quality assurance.
- Use tools including Python, Bash, Docker, Git, GitHub, Linux, WSL Pytest, Pydantic, OpenAI, Claude, and terminal based development environments.

Senior Backend Engineer

ARBISOFT

05/2024 – Present

- Engineer scalable backend infrastructure for high-traffic AI SaaS platforms, effectively processing heavy production-level data loads.
- Architect LLM orchestration workflows and RAG pipelines using LangChain and OpenAI to drive intelligent text and voice features.
- Optimize core API performance, slashing response times to maintain consistent low-latency standards across critical user flows.
- Manage containerized cloud deployments with Docker, Kubernetes, and automated GitHub Actions CI/CD workflows.
- Collaborate closely with product and engineering teams to translate complex business metrics into high-performance database schemas.

Senior Software Engineer

SHOPDEV

03/2022 – 04/2024

- Built and optimized high-throughput RESTful APIs using Django and FastAPI to handle complex records and heavy data manipulation.
- Structured complex database layers on PostgreSQL and Redis, implementing background workers via Celery to isolate heavy computations.
- Scaled infrastructure architectures to support severe concurrent user loads while preserving system stability and reliability.
- Refactored legacy systems to resolve performance bottlenecks and established automated unit testing with Pytest.
- Integrated multi-tenant access models and secure authorization rules to ensure rigid data isolation across enterprise client workflows.

Software Engineer

TECHFINITY

06/2020 – 02/2022

- Developed robust data processing and automation web scraping pipelines using Scrapy and Playwright for large-scale data sets.
- Maintained and enhanced secure communication lines using WebSockets for real-time dashboard data synchronization.
- Deployed scalable cloud components across AWS services, including EC2, Lambda, and S3 storage mechanisms.
- Implemented rigid authentication and access controls leveraging JWT and OAuth2 standards to safeguard sensitive routes.
- Optimized asynchronous task processing setups to safely manage incoming data streams without causing worker starvation.

Technical Skills

- **Backend:** Python| Django| Django REST Framework |FastAPI |Flask| Node.js| REST APIs| GraphQL| Celery
- **Frontend:** HTML5| CSS| React.js| JavaScript| TypeScript| Next.js
- **Databases:** PostgreSQL| MySQL| MongoDB| Redis| DynamoDB| Redis| SQL| NoSQL
- **DevOps & Infrastructure:** CI/CD| GitHub Actions| Docker| Kubernetes| AWS (EC2, Lambda, S3, RDS) |Linux| Terraform
- **AI & Intelligent Automation:** OpenAI (GPT-4o/Realtime) |RAG (Retrieval-Augmented Generation) | LangChain| Agentic Workflows| Prompt Engineering| Vector Databases (Pinecone/Milvus) | LLM Workflows DevOps & Infrastructure
- **API & Architecture:** RESTful API| GraphQL| WebSockets| JWT| OAuth2| Microservices
- **Frameworks & Libraries:** SQLAlchemy| SciPy| NumPy| OpenCV| Scrapy| Playwright
- **Collaboration & Testing:** Jira| Agile/Scrum| Pytest| Selenium| TDD

Education

PhD in Computer Science — AI/ML

Lahore University of Management Sciences (LUMS)| Lahore, Pakistan
2022-2026

Master of Science in Computer Science (MSCS)

Lahore University of Management Sciences (LUMS)| Lahore, Pakistan
2019-2021

Bachelor of Science in Computer Science (BSCS)

University of Management and Technology (UMT)| | Lahore, Pakistan
2015-2019