

Mehran Kader

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SUMMARY

I am a results-driven software engineer with a strong focus on building high-performance, scalable systems. I've worked on complex backend architectures, led cost-cutting infrastructure initiatives, and contributed to cross-functional product development in both startup and mature engineering environments. I'm particularly interested in event-driven and distributed systems, and I enjoy solving problems that blend technical depth with product value.

While Python has been a core part of my toolkit, I consider myself a polyglot developer — comfortable navigating TypeScript, Golang, SQL, and cloud-native stacks like serverless. More recently, I've been building with LLMs and agent-based systems using tools like OpenAI's Agents SDK, and I'm excited about the intersection of AI and systems engineering.

SKILLS

- **Languages & Frameworks:** Proficient in Python (Django, FastAPI, Falcon, Flask, Pytest), experienced with JavaScript and TypeScript (React, NestJS), and comfortable with Go for building performant services. Also worked with GraphQL APIs and Subscriptions with FastAPI/Strawberry.
- **Architectural Patterns:** Event-driven systems, DDD, CQRS, async workflows. Advocate for test-driven development, clean code, and scalable service design.
- **Datastores:** Hands-on with PostgreSQL, MySQL, MongoDB, Redis, and Elasticsearch. Skilled in query optimization, schema design, and indexing.
- **Cloud & Infrastructure:** AWS and GCP, Pulumi, CI/CD via GitHub Actions and GitLab, Docker, Kubernetes.
- **Messaging & Pipelines:** Built robust pipelines using RabbitMQ, NSQ, Redis Streams. Implemented the outbox pattern and real-time product/reporting systems.
- **AI & Emerging Tech:** Developed LLM-integrated systems with OpenAI APIs and Agents SDK. Exploring agent workflows, RAG, and automation with AI systems.

EXPERIENCE

- **Webinterpret** Remote
Senior Software Engineer April 2024 - Present
 - **GPSR Compliance Suite:** Working on the development of compliance tooling for sellers to meet EU GPSR regulations — including auditor portals and Elasticsearch-based product search.
 - **Architecture & Code Quality:** Leveraged DDD and clean architecture principles to establish structure and consistency in a rapidly evolving codebase. Helped transition the product from a 15+ engineer MVP sprint to a focused 5-person team.
 - **SLA Improvements for Support:** Led handling of customer success team's user-facing requests and improved SLA metrics for compliance-related issues to 68%.
 - **Infrastructure Optimization:** Reduced inter-service traffic by 20% and halved DB usage through SQL query tuning, async coordination, and event model refinement.
 - **Error Reduction Initiative:** Reduced 100K+ weekly Sentry errors across multiple services by addressing root causes, improving validation layers, and introducing better logging strategies.
 - **Cost per click Vertical:** Built a new service to automate campaign workflows for eBay CPC listings, improving seller GMV by 2–10%.
 - **Testing for Maintenance Readiness:** Introduced end-to-end tests for core services to ensure resilience and stability before transitioning to maintenance mode.
 - **Stack:** Python, Falcon, Django, PostgreSQL, MySQL, RabbitMQ, Elasticsearch, Pytest

- Webinterpret** Remote
Software Engineer *November 2022 - March 2024*
 - **CI Modernization:** Migrated legacy GitLab CI pipelines to standardized templates, significantly reducing build time and pipeline faults.
 - **Amazon Ads Integration:** Integrated Amazon Ads API and built an internal adapter layer to expose unified campaign management interfaces.
 - **Outbox Pattern for Reporting:** Designed and implemented an outbox pattern to handle report generation and enforce API rate limits for external services like eBay.
 - **System Observability:** Used Grafana and RDS Insights to surface DB inefficiencies, resolve performance bottlenecks, and guide tuning efforts.
 - **Stack:** Python, Falcon, Flask, Django, PostgreSQL, GitLab, RabbitMQ, Pytest
- MyAlice** Dhaka, Bangladesh
Senior Software Engineer *January 2020 - October 2022*
 - **Engineering Leadership:** Aligned technical strategy with business needs, presented architecture decisions to stakeholders, and helped shape the team's long-term direction.
 - **Shopify & WooCommerce Integrations:** Built a robust prototype to help store owners connect their shops and manage sales and conversations across social platforms.
 - **Monolith to Microservices Migration:** Led the separation of the webhook module from the monolith into an isolated microservice, improving reliability and observability.
 - **Scalability & Reliability:** Scaled WhatsApp broadcasting to handle 100K+ event bursts; improved system resilience through monitoring and error tracking.
 - **Email Delivery System:** Developed an internal service using AWS SES for high-volume transactional email delivery.
 - **Mentorship:** Mentored interns and junior engineers, guiding them on best practices, system design, and debugging strategies.
 - **Stack:** Python (Django, FastAPI, Flask, Celery), React, TypeScript, AWS, Docker, RabbitMQ, Redis, PostgreSQL, MongoDB, Elasticsearch
- MyAlice** Dhaka, Bangladesh
Software Engineer *October 2017 - December 2019*
 - **Core System Development:** Designed and maintained the backend modular monolith using Django, shaping the foundation of the platform.
 - **Social Platform Integrations:** Integrated multiple social channels, enabling chatbot flows and conversation management within the product inbox.
 - **DevOps Automation:** Set up GitHub Actions for CI/CD and Dockerized core services to streamline deployment and improve portability.
 - **Stack:** Python (Django, Celery), PostgreSQL, Docker, GitHub, AWS, RabbitMQ

FREELANCE & CONTRACT WORK

- Truey** Remote
Backend Consultant (Contract) *2025*
 - **GraphQL API Development:** Built and optimized critical GraphQL endpoints using Python and Strawberry for a GenAI productivity MVP.
 - **Test Infrastructure:** Introduced testcontainers for isolated and reliable backend testing in CI.
 - **Performance Tuning:** Profiled and resolved bottlenecks that were severely impacting user experience and response times.
- MyAlice** Dhaka, Bangladesh
Backend Consultant (Contract) *2024*
 - **Database Optimization:** Reduced DB resource usage by 75% and infrastructure costs by 85% through SQL refactoring and proper indexing.
 - **Team Enablement:** Trained team members on database best practices and separation of concerns between data and business logic.
- Holo App** Dhaka, Bangladesh
Backend Consultant (Contract) *2023*
 - **MVP Architecture:** Designed and implemented the backend for a ride-sharing platform introducing a unique subscription and bargaining model.
 - **Deployment Readiness:** Deployed the service with capacity-aware configurations and ensured readiness for pilot launch.

EDUCATION

- **Bangladesh University of Engineering and Technology** Dhaka, Bangladesh
Bachelor of Science in Computer Science and Engineering May 2012 - February 2017
- **Notre Dame College** Dhaka, Bangladesh
Higher Secondary Certificate 2009 - 2011
- **St. Joseph Higher Secondary School** Dhaka, Bangladesh
Secondary School Certificate 2001 - 2009