Mehran Kader

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SUMMARY

Skilled and motivated software engineer with extensive experience in building high-performance, scalable applications. Proficient in various programming languages and technologies, including Python, TypeScript, AWS, GCP, and Docker. Proven ability to design and implement event driven systems, deliver complex projects, and lead and mentor teams.

SOFTWARE DEVELOPMENT SKILLS

- **Core Stack**: Python (Django, FastAPI, Falcon, Pytest), SQL

- **Databases**: Postgresql, MySQL, MongoDB

- **Tools**: Git, AWS, GCP, Docker, RabbitMQ, Redis, NSQ, Elasticsearch

- **Others**: JavaScript (TypeScript, ReactJS, NestJS), Strawberry (Python/GraphQL)

EXPERIENCE

- **Webinterpret**   Remote
  Senior Software Engineer   *April 2024 - Present*

  - **Currently working on a high impact vertical to help sellers easily adapt to EU Compliance Regulations (GPSR)**: Working with a team of 7 engineers in implementing a suite of features to guide sellers into getting all compliance information prepared for GPSR Compliance. Led the initiatives on validating and publishing regulatory documents pipeline, building a portal for in-house auditors to assess risky products, using elasticsearch to implement a search module to filter product data.
  - **Led a team of four into cutting costs and smooth migration into maintenance mode.**: Delivered multiple product led features and engineering initiatives. Led the initiatives to reduce resource usage in cluster by 20% - optimizing the events between services. Worked with the team to reduce database usage by half - optimizing SQL queries. Introduced end to end tests for mission critical processes ensuring a smooth migration to maintenance mode.
  - **Built an internal service for a new revenue generation model**: Worked with the data team to automate a multi-step workflow for a new vertical to promote cost per click listings on eBay. Improved seller GMV to varying degrees from 2% to 10%.
  - **Tools and technologies**: Python, Falcon, Django, Postgresql, MySQL, GitLab, Pytest, RabbitMQ, Elasticsearch

- **Webinterpret**   Remote
  Software Engineer   *November 2022 - March 2024*

  - **Migrated outdated CI pipelines.**: I started owning the CI and build pipelines of the ePL team on GitLab. Upgraded outdated GitLab CI pipelines to company standardized templates reducing build time and faults significantly.
  - **Integrated Amazon Ads API**: Integrated Amazon Ads API within an adapter service and exposed standardized APIs for internal services to consume.
  - **Led an initiative on moving reporting tasks to outbox pattern for consistency**: Implemented a rudimentary Outbox pattern to handle report generation for seller campaigns. Led the initiative to enhance this implementation to also manage rate limits for eBay APIs, reducing unnecessary failed calls to 0.
  - **Contributed to multiple services owned by the ePL team**: Followed company conventions and guidelines and worked on multiple features using CQRS, Dependency Injection, and DDD. Regularly monitored overall system performance using Grafana and RDS Insights, discovering performance issues and presenting to the team.
  - **Tools and technologies**: Python, Falcon, Flask, Django, Postgres, SQL, GitLab, Pytest, RabbitMQ

- **MyAlice**   Dhaka, Bangladesh
  Senior Software Engineer   January 2020 - October 2022
  - **Engineering Leadership**: Demonstrated expertise in defining crucial business and technical prerequisites, skillfully aligning internal strategies with them to achieve broader organizational goals. Presented technical solutions and project updates to stakeholders, facilitating informed decision-making.
  - **Integrated Shopify and WooCommerce**: Built a prototype empowering Shopify and WooCommerce store owners to effortlessly connect their social media channels and manage their customers and sales.
  - **Separation of the earlier monolith to microservices**: Identified which modules of the core monolith should be deployed as a separate microservice. Moved the module responsible for receiving webhooks from external platforms into its own service improving tracking of incoming webhooks and preventing data loss.
  - **Features and Improvements**: Developed an in-house service utilizing AWS SES for efficient email delivery. Successfully scaled the broadcast feature on WhatsApp to handle bursts of 100K+ events, enhancing the platform's responsiveness. Collaborated with SRE to optimize CI/CD processes, error tracking, and monitoring, resulting in improved system reliability.
  - **Mentoring**: Mentored and guided multiple interns and junior software engineers, fostering their professional growth.
  - **Tools and technologies**: Python (Django, FastAPI, Flask, Celery), JavaScript (ReactJS, TypeScript), AWS, GitHub, Docker, RabbitMQ, Redis, Postgres, MongoDB, Elasticsearch

- **MyAlice**   Dhaka, Bangladesh
  Software Engineer   October 2017 - December 2019
  - **Built and maintained the core Django monolith**: Architected and implemented a modular monolith backend in Django.
  - **Integrated multiple social media platforms**: Spearheaded the implementation to seamlessly connect social media platforms, construct chatbot flows, and efficiently manage conversations from the product's inbox.
  - **DevOps**: Implemented automated deployment of services using Github Actions for enhanced development efficiency. Leveraged Docker to containerize backend services, ensuring portability and scalability.
  - **Tools and technologies**: Python (Django, Celery), Postgres, AWS, GitHub, Docker, RabbitMQ

OTHER PROJECTS

- **Truey** Worked with a NA organization in delivering features and optimizing severe performance issues for the MVP of a GenAI Productivity App. Used Python and Strawberry to build GraphQL APIs, introduced tests using testcontainers for critical functionalities, and identified and fixed severe performance issues through profiling tools.

- **MyAlice** Worked with MyAlice on a short term contract to optimize database resource usage and lower costs. Optimized low performing ORM queries by converting them to highly optimized SQL queries, introduced best practices to separate data layer from business layer, and trained the team on proper indexing techniques. Reduced resource usage by 75% and lowered cost by 85%.

- **Holo App** Holo is a startup looking to disrupt the existing ride sharing industry in Bangladesh through a subscription based service for drivers and allowing a bargain process for each individual ride between drivers and users. I built and deployed the prototype of the backend using Python/Django and related technologies for the service to function proprely according to the estimated capacity.

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