Rastislav Kisel

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SUMMARY

I am a software engineer with more than 5 years of industry experience across product and platform teams with expertise in distributed systems, ML infrastructure, storage systems, and security. I have a proven track record of leading the end-to-end design and implementation of large projects involving multiple stakeholders across teams.

EXPERIENCE

- **Abnormal Security** London, UK
  Senior Software Engineer *September 2022 - Present*
  When I started, my focus was on building a storage layer for our custom ML feature store. Then I was a core engineer on the data integration platform team. I led the design, implementation, and migration to a new version of a platform for ingesting data that is powering several core company products. I am currently working for the Advanced Technologies Group team where I build the infrastructure foundations for new company-wide projects - e.g. our generative AI platform or a notifications platform.

  - **Email Integration with AWS**: Led the company-wide initiative to standardize our email-related technologies. Spearheaded the implementation of a comprehensive platform solution for inbound and outbound email.
  - **Data Ingestion Pipelines**: Led the design and implementation of new data ingestion pipelines. Also spearheaded the migration of the old scheduling and ingestion processing to the new system. This layer handles 12k+ events per second and powers multiple downstream products, including account takeover detection and posture management.
  - **Feature implementation for ML models**: Led the implementation of features for behavioral account takeover ML models. These features are the cornerstone of the logic for detecting account takeover attempts.
  - **ML feature store backend**: Designed and implemented core storage layer for our custom ML features store. This storage layer currently handles 10k+ write and read requests per second. The features store is a foundational platform product for the entire company used by multiple ML teams.

- **Monzo** London, UK
  Software Engineer *June 2021 - August 2022*
  I was working on the business offering of Monzo. I led the full development lifecycle of several major features, including international payments for businesses and enabling the opening of multiple business accounts.

- **ESET** Prague, Czech Republic
  Junior Software Engineer *August 2018 - May 2021*
  I was working in a team on a new Mobile Device Management product in the cloud. I led the implementation of product and platform features, including the development of microservices (running in Kubernetes) dealing with the enrollment of mobile devices, integrating Istio service mesh into our cloud environment, and preparing and implementing Azure security and networking standards.

EDUCATION

- **Charles University** Prague, Czech Republic
  Master in Quantitative Finance *September 2015 – January 2018*
- **Diploma thesis**: Quoting behavior of a market-maker under different exchange fee structures. Using Deep Reinforcement Learning techniques I was able to replicate Avellaneda and Stoikov's market-making strategy, and estimate quoting behavior under different maker and taker fees.

PROGRAMMING SKILLS

- **Languages**: C++, Golang, Rust, Python
- **Technologies**: AWS, Kubernetes, Envoy, Docker, PostgreSQL, MongoDB, Cassandra, Kafka, Redis, Spark