

Dimitar Dimitrov

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TECHNOLOGIES

Primary

Golang • Kubernetes • Kafka
Jsonnet • Helm • AWS,GCP

Supporting

Linux • Docker • gRPC • SQL
Rego (OPA) • Bash • Python

EDUCATION

UNIVERSITY OF MANCHESTER | BSc IN COMPUTER SCIENCE

Sept 2016 - June 2020 | Manchester, UK

- Grade: 82% (First Class)

- Relevant modules:

Distributed Systems,
Databases,
Advanced Algorithms,

Computer Networks,
Operating Systems,
Compilers

RELEVANT WORK EXPERIENCE

GRAFANA LABS | STAFF SOFTWARE ENGINEER

October 2021 - Present | Amsterdam, NL

- Led development of Grafana's enterprise-scale Prometheus-based metrics platform in a distributed team serving 240,000 requests/sec across 25,000 containers and 96,000 CPU cores for tens of thousands of customer organisations.
- Spearheaded the next-generation Mimir architecture along a principal engineer, rebuilding the core system around the Kafka protocol and further leveraging object storage. This transformation slashes multi-AZ operational costs and shrinks outage probability by 30-200x.
- Researched and engineered concurrent fetching using the Kafka protocol in Golang, improving MTTR by 8.3x.
- Optimized querying the Prometheus inverted index from object store leading to 80-30% reduction in Go heap, 99% reduction in OOM events, and 29% reduction in p99 latency. Blog post link; grafana/mimir#4593.
- Unblocked onboarding of the largest metrics customer at the time by tracking down nodes with saturated network links and improving provisioning tooling to ensure sufficient capacity.

WISE (FORMERLY TRANSFERWISE) | SOFTWARE ENGINEER

August 2020 - October 2021 | Budapest, HU

- Owned major projects throughout their development life cycle including scoping and design, cross-team architectural decisions, implementation, launch and impact measurement.
- Worked in a team of two to integrate instant payments with a new banking partner.
- Created an automated data visualisation pipeline for daily engineering toil; drove adoption of the framework across three other teams helping them identify key areas for improvement
- Gained experience developing and supporting 24/7/365 services

THE HUT GROUP | GRADUATE SOFTWARE ENGINEER

July 2018 - January 2020 | Manchester, UK

- Worked in a DevOps team facilitating infrastructure automation and aiming to provide IaaS and PaaS
- Delivered key components for a firewall automation project in collaboration with two other teams
- Developed REST-ful cloud-native microservices in Go that were in use by the company's developers
- Provisioned and maintained Kubernetes clusters for other teams

LIREX | INTERN

July 2015 - Aug 2015 | Plovdiv, BG

- Engaged in a team of six to provide networking and hardware solutions to clients such as banks and hospitals
- Gained knowledge of fundamental principles of computer networks