Mile Družijanić [Backend Programmer - DevOps Engineer]

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GitHub: github.com/miledxz

Technical Skills

- **Languages:** Golang, Python, C/C++, TypeScript, SQL
- **Databases:** Postgres, Redis, OpenSearch/ElasticSearch, MongoDB
- **DevOps:** Kubernetes, Docker, CI/CD pipelines, Terraform, Linux, Shell, Git
- **Monitoring**: Prometheus, Grafana
- **AWS:** EKS, EC2, VPC, EB, RDS, S3, Cloud Watch, Route53

OpenSource

- **Google gRPC**: Contributed with issue fixes and updates for **Golang gRPC** project
- **NGINX**: Collaborating with **NGINX Gateway Fabric** team with focus on **Golang** modern data plane for **Kubernetes**, fixing issues, updating current solutions and improving test coverage

Employment

Lead Software Engineer - contract	Kubespaces	Jun. 2024 – present
		11 months

- Built platform as a service for deploying applications into **Kubernetes** namespaces
- Provisioned deployments with infra by using **Envoy**, **Traefik**, **Docker**, **Helm** into **Linux** VMs hosted on Hetzner
- Networking setup with **Cilium** Daemon Sets and endpoints, TLS routes, messaging queue with **Golang** NATS
- Monitorig via Datadog and Kubewall, using **GitOps** practices by ArgoCD, SSH management via Ansible with cloud providers: **AWS**, **GCP**, **Azure**, **Scaleway**
- Onboarding and mentoring team members, creating workflows, leading development
  - Technologies: **Golang**, **Kubernetes**, **Docker**, **Helm**, **Postgres**

Software Engineer II	Tilde Loop	Sept. 2022 - Aug. 2024
		2 years

The Lowdown - London, UK startup for womens reproductive health

- Developed and delivered scalable microservices within **distributed sytems** architecture, handling **5 million** daily requests with **200k** active users, deployed everything on **AWS** with **Docker** from design to production
- Implemented **OpenSearch (ElasticSearch AWS)** into our microservices, enhancing performance and data querying capabilities by **70%** with advanced aggregations and tuning multi-search options
- Led the successful migration of large infrastructure to newer **AWS** environment, ensuring minimal disruption to services, using blue-green deployment strategies with smooth traffic transition, covered with monitoring and observatility
- Covered **90%** of my code with various unit tests and integration tests, ensuring seamless integration across the entire system using **CI/CD** pipelines, integrated **Sentry** monitoring and logging, enhancing microservices reliability by 35%
- Utilized **Terraform/HCL** to provision resources for **BigQuery**, implemented Fivetran connectors with **AWS** databases
  - Technologies: **AWS**, **OpenSearch**, **Docker**, **TypeScript**, **Node**, **Terraform**

Software Engineer Intern	mStart	Jun. 2022 – Sept. 2022
		4 months

- Built services using PHP within RabbitMQ messaging queue environment
- Utilized **Redis** and NGINX proxy for caching within **Docker** environment, **Linux** for firewalls and network settings

Software Engineer Intern	AVL	Mar. 2022 – Jun. 2022
		4 months

- Used Shell and **Python** for developing GUI solutions for simulations of BMW motorcycle
- Managed **Linux** servers, including user management and performed security audits

Education

Zagreb, Croatia	University of Zagreb	2015 - 2021

- Master in Computer Simulations, Mech. Engineering
  - Thesis: Numerical Analysis of the Computer Processor Fan Cooler
  - Utilized **C++**, multi threading, Linux kernel profiling, focusing on Computational Fluid Simulations
- Bachelor in Aeronautical engineering

Achivements

Placed in first **0.1%** (top 100) **Advent of Code** worldwide programming competition using **Golang**:
- **day 9** in **2024**
- **day 13**, **day 20** in **2023**