# even **Miculinić**

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### Education

#### Faculty of Electrical Engineering and Computing (FER), University of Zagreb

BACHELOR IN COMPUTER SCIENCE MASTER IN COMPUTER SCIENCE

#### CNCF

CERTIFICATED KUBERNETES ADMINISTRATOR(CKA)

### **Experience**

#### grid.ai

SOFTWARE ENGINEER

SENIOR SOFTWARE ENGINEER

• Various backend, infrastructure, and operational work

#### **Kubermatic (formely Loodse)**

SOFTWARE ENGINEER

- Implemented, designed, and debugged various features within the KubeCarrier
- Wrote kubernetes operators, API extension server, painfully debugged both. Wrote small go utility wrapping telepresence + IDE task generation for effective microservice debugging within kubernetes. And that's not all!
- Transfered knowledge to fellow team members (e.g. recently how to setup kind with audit logging and using jq to effectively parse logs /debug operators)
- Reseached formal model checkers application for the project (specifically TLA+), held internal talk on it
- Performed most infra work on our ex-CI concourse, and setup e2e tests/logging/etc. in our current CI, prow

#### Kraken systems

DevOps

- · Migrated multiple projects to Kubernetes on AWS and Bare metal
- Writing CI/CD pipeline in gitlab (( plus deploying gitlab on kubernetes ))
- Integrating wireguard as network solution for kubernetes. for IoT use cases. Wrote ansible bootstrap script for wireguard CNI and wireguard kubernetes operator.
- Implemented observability toolset on existing microservices, including log aggregation and processing (ELK), metrics & alarms (Prometheus + alertmanger) and tracing (Opentracing, Jaeger)
- Wrote wireguard VPN CNI ansible configuration, wg-quick go clone, and wg kubernetes operator for managing wireguard VPN private/public kevs

#### Ozone platform, «small start up»

#### сто

- Developed real time crypto-currency trading bot, overseeing, developing, and implementing algorithms, monitoring, and fine tuning the system
- · Selected all appropriate technology for each system component and selected software architecture
- Using dockerized micro-services architecture written in Python & Go, deployed on GKE with kubernetes. Monitored using prometheus, stackdriver and grafana

#### INTERNSHIP

#### Facebook, Inc.

SOFTWARE ENGINEERING INTERN

- · worked at Site Integrity fighting spam, specifically URL spam via machine learning
- Used Haskell and PHP(Hack) plus Hive, Presto, Python and HiveQL
- Connected internal systems and built Machine learning pipeline

#### **PROJECTS**

JANUARY 16, 2021

# remote

Zagreb, Croatia

2013-2016

2016-2018

October 2020 - December 2020 Jan 2021 – present

Jun 2019 - October 2020

Zaareb. HR

Otc 2018 - Jun 2019

Zagreb, HR

July 2017 - Sept 2018

London, UK Summer 2015

remote

WORK

January 2019

#### Undergraduate Research, Bioinformatics lab (Full Prof. dr. sc. Mile Šikić)

Researcher

- Developing machine learning model to read MinION raw sequencing data and generate resulting DNA sequence. Trained in distributed fashion on multiple GPU and nodes.
- Paper published on Deep Learning for precision medicine 2017 conference, part of ECML PKDD 2017
- Wrote master thesis on this project with further work
- source code

#### COMPETITIONS

2006-2014	Competed in math, physics and algorithmic competition
2012	3rd place on national competition in algorithms
2010-2014	Ranked among top 5 in respective category in HONI(COCI)
	Member of spoj http://www.spoj.com/users/nmiculinic/ and codeforces http://codeforces.com/profile/lpp

## Skills\_\_\_\_\_

Programming	Go (3+ years), C/C++(age 12- 20ish non-professionally), Python, Dart, Rust, Haskell, Java, SQL, Git, 떠군
Topics	Algorithms, Data structures, CI/CD (Gitlab, Google cloud build, Concourse, Prow), Cloud platform (GCE, AWS), distributed systems(organized Zagreb's distributed systems group), kubernetes, Linux, Terraform, Ansible
Machine learning	Tensorflow, keras, numpy, pandas, seaborn, plotly, matplotlib

### Other\_\_\_\_\_

2017-preset	Active member of local Go meetup
2018-2020	Organizing local Distributed systems meetup
2013-2017	BEST (Board of European Students of Technology) alumnae
2015-2017	ESN - Erasmus student network member and ESN student buddy

#### PRESENTATIONS

**Container days 2019 Hamburg** What does the kubelet say? GoDays 2019 Berlin, Gophercon Russia 2019 Golang's race detection talk Webcamp 2018, Zagreb Pragmatic tracing talk DORS/CLUC 2018, Zagreb Kubernetes workshop

Kubecon 2020 North America Kubernetes Operators: Safety First Through Model Checkers

2016 - 2018