

Neven Miculinić

DEVOPS & SYSTEMS ENGINEER

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Education

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

Zagreb, Croatia

BACHELOR IN COMPUTER SCIENCE

2013-2016

MASTER IN COMPUTER SCIENCE

2016-2018

CNCF

CERTIFICATED KUBERNETES ADMINISTRATOR(CKA)

January 2019

Experience

WORK

Kraken systems

Zagreb, HR

DEVOPS

Otc 2018 – present

- 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 keys

Ozone platform, «small start up»

Zagreb, HR

CTO

July 2017 – Sept 2018

- 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, stack-driver and grafana

INTERNSHIP

Facebook, Inc.

London, UK

SOFTWARE ENGINEERING INTERN

Summer 2015

- 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

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

FER, Zagreb

RESEARCHER

2016 – 2018

- 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/) <http://www.spoj.com/users/nmiculinic/> and [codeforces](http://codeforces.com/profile/lpp_) http://codeforces.com/profile/lpp_.

Skills

Programming Go (2+ years), C/C++(since 12 non-professionally), Rust, Haskell, Python, Java, SQL, Git, \LaTeX

Topics Algorithms, Data structures, CI/CD (Gitlab 6months, Google cloud build 1 year), Cloud platform (GCE 1y, AWS 6months), distributed systems(organizing Zagreb's distributed systems group), kubernetes(2+ years), Linux(5+ years), Terraform, Ansible

Machine learning Tensorflow(2 years), keras, numpy, pandas, seaborn, plotly, matplotlib

Other

2018–present Organizing local Distributed systems meetup

2017–present Active member of local Go meetup

2013–2017 [BEST](#) (Board of European Students of Technology) alumnae

2015–2017 [ESN - Erasmus student network](#) member and ESN student buddy

PRESENTATIONS

DORS/CLUC 2018, Zagreb Kubernetes workshop

Webcamp 2018, Zagreb Pragmatic tracing talk

GoDays 2019 Berlin, Gophercon Russia 2019 Golang's race detection talk

Container days 2019 Hamburg What does the kubelet say?