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Experience

PRODUCTION ENGINEER

Facebook London, United Kingdom Nov 2018 - Present

• Elasticsearch (Jan 2020 - Present)

- designing, building and maintaining all of Elasticsearch infrastructure at Facebook
- · working with teams using Elasticsearch to understand their needs and onboard them
- · designed cluster architecture and integration with Facebook systems; entire cluster lifecycle management
- · implemented a continuous integration and deployment solution for Elasticsearch clusters CI/CD pipelines with custom monitoring and push strategies
- · security for Elasticsearch clusters carried out threat model analysis, configured TLS, implemented ACLs (access control lists authorization)
- Vulnerability Management (Nov 2018 Jan 2020)
 - · building distributed systems architecture to discover and manage vulnerabilities in all of Facebook infrastructure
 - helping build "Vulnerability Management-as-a-Service" self serviced vulnerability discovery, monitoring and alerting
 - · working with external partners (companies) on integrating multiple vulnerability providers into our system to broaden coverage and increase discovery speed
 - · cross functional work with numerous other teams to help them surface vulnerabilities in their libraries/repositories/services/hosts and helping them remediate
 - one of the core maintainers of Facebook's opensource tools and libraries for managing vulnerability data (nvdtools)
- Misc
 - · interviewing candidates for jobs at Facebook coding and systems (Linux) interviews for engineers
 - primary point of contact ("bootcamp mentor") for Facebook newcomers assigning tasks, tracking progress, helping with team selection, introducing the Facebook culture
 - · helping new team members with onboarding finding tasks and projects, explaining how the systems work, etc.
 - · presenting on internal conferences at Facebook
 - presented my life journey as an engineer to numerous Middle schools across the UK, as part of the Primary Engineer Programme

Twitter San Francisco, California

HADOOP INFRASTRUCTURE INTERN

Jun 2018 - Aug 2018

- worked on detecting bad hadoop data nodes and automating remediations
- developed a more efficient way to extract metrics from log files
- set up monitoring and alerting for newly exposed metrics
- implemented a highly configurable and easy to use health check framework in Python

Facebook London, United Kingdom

PRODUCTION ENGINEER INTERN

Sep 2017 - Nov 2017

- Windows Developer Infrastructure team, supporting Oculus team
- · worked on a system which would enable taking snapshots of virtual machines used for ephemeral tasks, like running tests
- sped up the process of cleaning the VM and returning it to a healthy state, instead of provisioning it all over again

Sofascore Zagreb, Croatia

RESEARCH AND DEVELOPMENT ENGINEER

Dec 2015 - Sep 2017

- · developed a machine learning model for classifying users which enabled admins and moderators to monitor chat rooms with many "bad" users (swearing, posting fake scores, ...)
- developed a system which would detect others scraping the website
- · created and developed the initial infrastructure for aggregation and querying of football player statistics

University of Zagreb, Faculty of Electrical Engineering

Zagreb, Croatia Oct 2016 - Mar 2018

Undergraduate and Graduate Teaching Assistant

- helping other students to learn and overcome difficulties in following classes:
- 2017/2018 Operating Systems
- · 2016/2017 Digital Logic, Software Design, Internet Security, Artificial Intelligence, Network Programming, Basics of Java Programming Language, Introduction to Knowledge Management, Distributed Big Data Processing
- 2015/2016 Mathematics 3, Probability and Statistics
- 2014/2015 Mathematics 1&2, Digital Logic, Programming and Software Engineering, Algorithms and Data Structures, Electronics 1
- 2013/2014 Mathematics 1, Digital Logic

RESEARCH OFFICER Jul 2015 - Sep 2015

used customized mathematical models for simulating intraspecies interactions in the human microbiome

· presented scientific papers on that subject to the entire team

Education

University of Zagreb, Faculty of Electrical Engineering and Computing

Zagreb

MASTER'S DEGREE, TELECOMMUNICATIONS AND INFORMATIONS

Oct. 2016 - Sep. 2018

• Thesis: Design of the IPv4 Routing System Based On Field-Programmable Gate Arrays

• GPA: 4.70/5

University of Zagreb, Faculty of Electrical Engineering and Computing

Zagreb

BACHELOR'S DEGREE, COMPUTER SCIENCE

Oct. 2013 - Jul. 2016

• Thesis: Detection of Inappropriate Messages in Online Chats

• GPA: 4.86/5

Additional courses: Discrete and Continuous mathematics, Programming in Haskell, Introduction to Java Programming Language, Object Oriented Programming, Basic use of Linux Operating System, Advanced use of Linux Operating System

Honors & Awards

Google & Udacity Zagreb, Croatia

Android Programmer Path scholarship

Jan 2017

· Google's Associate Android Developer Certification

"Stipo Lozić-Baškarad" Foundation

Zagreb, Croatia
Oct 2015 - Oct 2018

SCOLARSHIP FOR TALENTED STUDENTS

• "... advanced undergraduate, graduate and postgraduate students in mechanical, electrical and traffic sciences ..."

A*STAR Singapore, Singapore

SINGAPORE INTERNATIONAL PRE-GRADUATE AWARD (SIPGA)

Jul 2015

• "... short-term research attachments for international students ..."

Faculty of Electrical Engineering and Computing

Zagreb, Croatia

"JOSIP LONČAR" AWARD - BEST STUDENTS IN CLASS (TOP 1%)

Nov 2014 - Nov 2016

- Academic year 2015/2016 (third year of study)
- Academic year 2014/2015 (second year of study)
- Academic year 2013/2014 (first year of study)

Rotary International Varaždin, Croatia

HIGH SCHOOL EXCELLENCE AWARD

May, 2013

• Award for best high school students in class

Skills_

Languages Golang, Python, Java, C, PHP, Bash

Technologies git, mercurial, Linux, Elasticsearch, MySQL, PostgreSQL, Hadoop, Vagrant, Docker, Spring

Interests Hiking, skiing, tennis; cognitive psychology, NLP