Kamila Součková

I identify problems in systems before they eat your time, your product, and your dog.

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Work Experience

2021-present:

DevOps Engineer at Wincent:

system & application monitoring; big data pipeline design & implementation;

performance monitoring including using eBPF to export custom kernel metrics

2019-2021:

Research Engineer, Site Reliability Engineer at Network Security Group, ETH Zurich:

design and operations of the SCIONLab global research network; work on high-performance network applications

2018:

Lead Site Reliability Engineer for Data Center Light at ungleich:

VM cluster design and operation (Ceph distributed filesystem, OpenNebula virtualization manager, Prometheus monitoring)

2014, 2015:

Site Reliability Engineering intern at Google Switzerland (summer 2014 Payments SRE, summer 2015 Borg SRE)

2014–2017:

- contributed to the Student Development Team at my university – full-stack web development; ops
- designed and developed the backend of an in-house solution for an RFID-based access control system – Project Deadlock
- server administrator for Trojsten – Linux and FreeBSD servers with diverse uses

2012–2013:

software engineer at MicroStep - MIS – meteorological data visualisation

2009–2012:

web developer (front-end) at Lighting Beetle

Education

2016–2019:

ETH Zurich, Switzerland: MSc Computer Science, focus Information Security
Thesis: FPGA-based line-rate packet forwarding for the SCION future Internet
architecture – hardware/software co-design, work across the whole network stack,
software-defined networking; achieved 40Gbps throughput

2013–2016:

Faculty of Mathematics, Physics and Informatics, Comenius University, Slovakia:
BSc Computer Science
Notable project: learned more about how operating systems work by making one
from scratch - chaOS

Skills

- not intimidated by unfamiliar complex systems, enjoys diving into them
- able to combine theoretical understanding and practical skills
- enjoys system design with emphasis on reliability, security, scalability,
  maintainability and correctness
- languages: English (fluent), Slovak (native speaker), Czech (fluent), German
  (intermediate)
- experience giving talks about a multitude of topics in science and technology at
  various venues, notably FOSDEM 2020
- an ever-increasing list of programming languages, database environments,
  operating systems and other technologies
- many open-source contributions (code, outreach, education), notably presence in
  the FreeBSD community: outreach, talks, workshops, contributed a device driver

Select Awards and Achievements

- International Young Physicists' Tournament: silver medal in 2013, 2011, 2010;
  bronze medal in 2012
- Internet Problem Solving Contest: 26th among high-school teams in 2012; 17th
  among 1-member high-school teams in 2011
- Correspondence Seminar in Programming, category T (elite): 1st in 2012, 2013