



# Kamila Součková

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

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## Work Experience

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### 2019-present:

Research Engineer, Site Reliability Engineer at Network Security Group

(<https://netsec.ethz.ch/>), ETH Zurich

design and operations of the SCIONLab (<https://scionlab.org>) global research network; work on high-performance network applications

### 2018:

Head of Site Reliability Engineering for Data Center Light (<https://datacenterlight.ch>) at

ungleich (<https://www.ungleich.ch/>)

### summer 2015:

Site Reliability Engineering intern at Google Switzerland (Borg SRE)

### summer 2014:

Site Reliability Engineering intern at Google Switzerland (Payments SRE)

### 2014–2017:

- contributed to the Student Development Team (<https://github.com/fmfi-svt>) at my university (development and server administration)
- designed and developed the backend of an in-house solution for an RFID-based access control system - Project Deadlock (<https://github.com/fmfi-svt-deadlock>)
- server administrator for Trojsten (<https://trojsten.sk/>) – Linux and FreeBSD servers with diverse uses

### 2012–2013:

software engineer at MicroStep - MIS (<http://www.microstep-mis.sk/>)

### 2009–2012:

web developer (front-end) at Lighting Beetle (<https://www.lbstudio.sk/>)

## Education

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### 2016–2019:

Department of Computer Science, ETH Zurich, Switzerland: MSc Computer Science, focus Information Security

Thesis topic: FPGA-based line-rate packet forwarding for the SCION future Internet architecture – hardware/software co-design, work across the whole network stack, SDN (with P4); achieved 40Gbps throughput

## 2013–2016:

Department of Computer Science, Faculty of Mathematics, Physics and Informatics, Comenius University in Bratislava, Slovakia: BSc.

Notable project: learned more about how operating systems work by making one from scratch - [chaOS](https://github.com/AnotherKamila/chaOS) (<https://github.com/AnotherKamila/chaOS>).

## Skills

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- quick at absorbing information and learning new things
- system design with emphasis on reliability, security, scalability and correctness
- algorithmic skills
- languages: English (fluent), Slovak (native speaker), Czech (fluent), German (basic)
- experience giving talks about a multitude of topics in science and technology at various venues
- an ever-increasing list of programming languages, database environments, operating systems and other technologies
- [I know regular expressions!](https://xkcd.com/208/) (<https://xkcd.com/208/>).

## Select Awards and Achievements

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### International:

- [International Young Physicists' Tournament](http://www.iypt.org) (<http://www.iypt.org>): silver medal in 2013, 2011, 2010; bronze medal in 2012
- [Internet Problem Solving Contest](http://ipsc.ksp.sk) (<http://ipsc.ksp.sk>): 26<sup>th</sup> among high-school teams in 2012; 17<sup>th</sup> among 1-member high-school teams in 2011

### National:

- [Correspondence Seminar in Programming](https://www.ksp.sk) (<https://www.ksp.sk>), category T (elite): 1<sup>st</sup> in 2012, 2013
- [Young Physicists' Tournament](http://www.tmfsr.sk) (<http://www.tmfsr.sk>), State round: 1<sup>st</sup> / gold medal in 2010, 2011, 2012