Lukáš **Forst**

SOFTWARE ENGINEER · CYBER SECURITY STUDENT

Prague, Czech Republic

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Education

Faculty of Electrical Engineering, Czech Technical University in Prague   *Prague, Czech Republic*

MASTER DEGREE IN COMPUTER SCIENCE, OPEN INFORMATICS PROGRAMME   *2019 - PRESENT*

- Study major in Cyber Security.

Faculty of Electrical Engineering, Czech Technical University in Prague   *Prague, Czech Republic*

BACHELOR DEGREE IN COMPUTER SCIENCE, OPEN INFORMATICS PROGRAMME   *2016 - 2019*

- Study major in Software, minor in Artificial Intelligence.
- Focused on software engineering.
- Hired by spin-off university startup as a software engineer in the second semester.
- Passed multiple courses with a focus on artificial intelligence, game theory, databases, data structures, algorithms, software engineering and functional as well as on object programming.
- Bachelor Thesis 'Design and implementation of a scalable server for parallelization of optimization algorithms execution.' - heuristic combinatorial optimization software for scheduling the long-running optimization jobs in the massive infrastructure written in Kotlin.

General Secondary School Jindřicha Šimona Baara v Domažlicích   *Domažlice, Czech Republic*

GENERAL SECONDARY EDUCATION   *2010 - 2016*

- Graduated from Math, Czech language, English and Computer Science.

Experience

Blindspot Solutions s.r.o.   *Prague, Czech Republic*

SOFTWARE ENGINEER   *June 2017 - PRESENT*

- Member of the team (five people) that designed and developed distributed microservice platform executing, running, and scaling big optimization jobs.
  My responsibility during this project was to develop various features such as a platform to docker-machine communication and many others. I was also designing and developing several DevOps operations and pipelines (unit testing and quality assurance pipelines as well as integration ones). Thanks to my previous experience with Kotlin, I was helping team members to learn the language and was supervising the code reviews.

- I was a member of the team (two developers, one optimization engineer) developing a factory production optimization engine for a major European car manufacturer.
  I was responsible for project integration to the client's infrastructure and flawless communication with legacy systems and various types of databases. During this project, I developed a custom Kotlin written solution based on typesafe reflection for communication between SAP Hana's stored procedures and an in-house optimization engine.

- Member of the team (three to six people) that developed application utilizing state of the art optimization core for inspection scheduling for a significant Chinese auditing company.
  For the first months of the project, I was working on the overall system refactoring and implementing minor features. Later on, I was responsible for the maintenance and bug fixing of the import pipelines from the client's Sharepoint legacy system. During the system's extension, I redesigned, implemented, and tested the new import pipelines that were importing data from multiple instances of various Sharepoints from the client's infrastructure.
  After the project transformation a two years later, I was a tech lead of the team of four people, that was modifying the import layer and connecting it to different client's system. I communicated with the client and with the technic team implementing their system and ultimately designing REST APIs for both sides.

APM Automotive s.r.o.   *Kdyně, Czech Republic*

IT ASSISTANT   *June 2016 - September 2016*

- Development of C# based programme which exported/converted the list of individual stock items from the Excel files to the html file and enabled instant web search for photographs of the items and simplified the stock keeping process.

Skills

Programming - full skill	Kotlin, C#, Java
Programming - basic	Python, SQL, JavaScript, KScript, C, C++, Haskell, Lisp, Bash
Frameworks	Spring Boot, Spring, WebFlux, Hibernate, Ktor, Gradle, Maven, .NET & .NET Core, Entity Framework, LINQ
Technologies	Git, Docker, Docker Compose, Sharepoint, REST, GraphQL, Azure, AWS, Terraform
Databases	Oracle 12c Database, PostreSQL, MS SQL, SAP Hana
Tools	Jira, Bitbucket, Github, Confluence, Enterprise Architect
Languages	Czech (Native Speaker), English (C1 Advanced Certificate)
Other	Linux, Windows, Android, Pepper, Scrum, Agile, LaTeX, Driving License

Extracurricular Activity

Robot Pepper Training *Softbak Robotics, Paris, France*

PARTICIPANT *March 2018*

- I have gained expertise in robot Pepper programming and development.
- I was a member of the international team sent by the Slovak branch of world-wide consulting company Adastra.

Swiss Talent Forum *Bern, Switzerland*

PARTICIPANT *April 2017*

- I was part of the international team working under the Sensirion company mentor on a new hardware sensor design.

Honors & Awards

DOMESTIC

2016	**3rd place**, SOČ - Nation wide competition of Student Professional Activities, Computer Science category	*Hradec Králové, Czech Republic*
2016	**1st place**, SOČ - Region wide competition of Student Professional Activities, Computer Science category	*Pilsen, Czech Republic*
2016	**2nd place**, Technická Olympiáda - Region wide competition in engineering	*Pilsen, Czech Region*