

# Bc. 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.
- I was part of multiple international teams working on the various types of challenges.
- 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 with an average 1.0.

## 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 platform executing, running, and scaling big optimization jobs. The platform is built upon microservice architecture, and it is written in Kotlin. It is deployed in the Azure cloud and runs on Kubernetes. As database serves MS SQL and for the communication between microservices utilizes Azure Service Bus. Another used technologies in this platform are Azure Container Registry, Azure Blob Storage, and Gradle.  
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. The application's dev-stack consists of Kotlin, Spring Boot, Hibernate, Maven, Docker, Docker-Compose, Oracle 12c, SAP Hana. The application was deployed in the client's infrastructure as well as on the AWS.  
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. This project used C#, .NET 4.7.2, Entity Framework, LINQ, MS SQL, Sharepoint and REST integration.  
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

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

## Extracurricular Activity

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### 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

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### DOMESTIC

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