

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

- Focused on software engineering and artificial intelligence.
- 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

Wire Swiss GmbH

Berlin, Germany

SOFTWARE ENGINEER

February 2020 - PRESENT

- Introducing new integrations to Wire - Charon, Polls, Ganymede.
- In charge of designing and building fully monitored (logging, metrics, requests tracing) cloud (K8s) for Wire integrations.
- Designed and created oneclick deployment for all integrations at Wire.
- Hardening of encryption libraries.
- Working on alternative backend for high profile customers.
- Kotlin, Java, Python, Ktor, Exposed, Dropwizard, Flask, SQLAlchemy, PostgreSQL, Redis, Kubernetes, Kibana, Prometheus, Github Actions.

Blindspot Solutions s.r.o.

Prague, Czech Republic

SOFTWARE ENGINEER

June 2017 - January 2020

- I was part of the team of 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.
- I was working with 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.

- 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	Kotlin, C#, Java, Python, SQL, JavaScript, KScript, C, C++, Haskell, Lisp, Bash, Make
Frameworks - JVM	Spring Boot, Spring, WebFlux, Hibernate, Ktor, Gradle, Maven, Kotlin Test, Junit5, Mockk, Mockito
Frameworks - C#	.NET & .NET Core, LINQ, Entity Framework, Nuget, NUnit
Frameworks - JavaScript	React, VueJS, Electron
Technologies	Git, Docker, Docker Compose, Kubernetes, RabbitMQ, Sharepoint, REST, GraphQL, Azure, AWS, Terraform
Databases	Oracle 12c Database, PostgreSQL, MS SQL, SAP Hana
Tools	IntelliJ IDEA, Rider, VS Code, Visual Studio, 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 Republic