Jan Kadlec

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Summary

I'm a pragmatic software engineer with solid computer science background. My strongest skills are Python, C and Go programming, expert knowledge of computer networks and good command of data science.

Experience

3/2016– Present **Tech Entrepreneur**, *Entrepreneur First*, London, UK.
Entrepreneur First is Europe's leading tech startup accelerator. Members are selected purely for their (technical) talents. I've explored two ideas at EF: measuring employee happiness from their mails and chats and a smart testing solution for mobile devices. I'm currently developing a beta for the smart testing solution. I use mainly Python since rapid prototyping is extremely important here.

4/2015– Present **Lead Developer**, *Phonexia*, Brno, CZ.
As a spin-off company of Brno University of Technology, Phonexia is a leading provider of speech technologies. I joined to create a new SaaS machine learning product, the main focus was on making corporate meetings more efficient, but the platform is modular to allow for different scenarios. Most of the solution was written in Python using Flask, some parts like realtime streaming support are written in Go. Data storage uses PostreSQL, Redis and Elasticsearch. The project uses a microservice architecture, with each service dockerized. I am still developing this project part-time.

10/2010– 4/2015 **Software engineer**, *CZ.NIC Labs*, Prague, CZ.
I was one of the first employees of the CZ.NIC's Research and Development branch. CZ.NIC is the body governing the .cz domain. I was part of the Knot DNS project - an open source authoritative name server. At this time it is deployed at several root zone nodes, which makes it an important part of today's Internet infrastructure. My tasks included creating highly optimized multithreaded code in C and writing functional tests in Python. Most of the code I've written is still in production. I was also in charge of DNS and DNSSEC tutorials at CZ.NIC's Academy.

Education

2011–2013 **MS, Computer Systems and Networks**, *Czech Technical University*, Prague, CZ.
Thesis: Simulation of Cache Hierarchy and the MESIF Protocol (graded A)

2010 **MS, Data Science**, *Aalborg University*, Aalborg, DK.
Erasmus programme, Member of IWIS: Intelligent Web and Information Systems research group

2007–2011 **BS, Information Technology**, *Brno University of Technology*, Brno, CZ.
Percentile: 93
Thesis: Measures of semantic similarity in folksonomies (graded A)

Technical Experience

Extremely Proficient With

languages C, Python, Golang, SQL

concepts Computer networks, Multi-threaded programming, Parallelization, Distributed systems, CPU architectures, NoSQL, Data science, Agile, SCRUM, TDD, Architecting systems from scratch

technologies Linux, DNS, DNSSEC, Crypto, OpenMPI, Docker, Flask, SQLAlchemy, Alembic, AWS, MySQL, PostgreSQL, Elasticsearch, Redis, Kibana, Jenkins, Bash, Git, Nginx, numpy, scipy, matplotlib

Have Experience With

languages C++(14), Node.js, Android, Common Lisp, x86 Assembly, VHDL, Javascript, Elm, Lua, Java, CUDA, R

concepts Machine learning, Image recognition, Speech recognition, Natural language processing, GPU programming, MapReduce, Functional programming