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Jan Kadlec

VISA STATUS: US green card

Summary

I'm a pragmatic software engineer with solid **computer science** background. My strongest skills are **Python, C, C++ and Go** programming, expert knowledge of **computer networks and computer architectures** and experience in natural language processing (**NLP**) and **Speech processing**.

Experience

7/2016 - Present **Director**, *Pythonic Limited*, London, UK.
Consulting - Python, C, computer networks, natural language processing, data pipelines, Python and CS mentoring. Initially, I've worked with a cloud provider on automating their managed database offerings deployments. My current client is one of the big 4 consultancies, where I've helped to build a machine learning solution from scratch. It started as a simple demo and evolved into a system which currently processes thousands of phone calls and documents a day.

3/2016–6/2016 **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 (technologies used: Python, NLTK, gensim, scikit-learn) and a smart testing solution for mobile devices.

4/2015–9/2016 **Lead Developer**, *Phonexia*, Brno, CZ.
Phonexia is a leading provider of speech technologies. I joined to create a new SaaS machine learning product, the main focus being making corporate meetings more efficient, but the platform was modular. Most of the solution was written in Python using Flask and Celery, some parts, such as realtime streaming support, were written in Go. Data storage via MySQL, Redis and Elasticsearch. The project used a microservice architecture, with each service dockerized.

10/2010–4/2015 **Software engineer**, *CZ.NIC Labs*, Prague, CZ.
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. A sister project, Knot Resolver, which shares some of the code, is now deployed as Cloudflare's 1.1.1.1. My tasks included creating highly optimized multithreaded code in C and writing functional tests in Python. 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, topic: CPUs, networks, multithreading)

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.
Thesis: Measures of semantic similarity in folksonomies (graded A, topic: data science, scraping, NLP)

Technical Experience

Proficient With

languages: C, C++, Python, Golang, SQL

concepts: Computer networks, Multi-threaded programming, Parallelization, Distributed systems, CPU architectures, NoSQL, Data pipelines, Natural language processing (NLP), Agile, SCRUM, TDD, Architecting systems from scratch, Database schema design, Machine learning

technologies: Linux, TCP/IP, DNS, DNSSEC, Crypto, OpenMPI, Docker, Flask, SQLAlchemy, Alembic, Celery, AWS, MySQL, PostgreSQL, SQL Server, Elasticsearch, Redis, Kibana, Jenkins, Bash, Git, Nginx, Numpy, Scipy, Matplotlib, NLTK, Gensim, Pandas

Worked with

x86 Assembly, Javascript, Elm, Lua, Java, CUDA, R, Image recognition, Speech recognition, GPU programming