Vojtech Letal

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Professional Experience

Software engineer at BLINDSPOT.AI (Prague, Czechia) **09/2015–present**

- Developed large parts of a real-time event based anomaly detection platform using big data tools such as Apache Flink and Apache Spark
- Developed custom tailored software solutions for a variety of problems including data analysis and optimization
- Contributed to visualization and optimization toolbox which allowed a European fast food company to optimize its supply chain by 80 km (50%) or 1 hour (17%) per delivery route
- Worked on toolbox designed to analyze correlations between crimes and external conditions like weather using data from LAPD

DS12 Resident at DataScience Inc. (Culver City, CA, USA) **summer 2016**

- 1 of 9 residents selected to participate in a 12-week elite, intensive residency program
- Passed through rigorous admissions process with 2.5% acceptance rate
- Implemented recommendation system with real client data using ALS and pattern mining in Spark
- Trained churn prediction model on real client data and identified several likely causes of churn
- Designed scalable production ETL pipeline which outperformed legacy SQL-based solution 6x (20 min) and was 36x (< 1\$) cheaper to execute

R&D in Cisco Systems (Prague, Czechia) **06/2014–08/2015**

- Collaborated with a team which developed state-of-the-art anomaly detection system on network traffic data
- Implemented novel Bayesian inference algorithm to estimate probability of maliciousness of domains
- Worked extensively with big data technologies such as Twitter Scalding and Apache Spark

Education

Masters degree (First-class honors) **09/2012–06/2015**

Czech Technical University in Prague - Open Informatics - Artificial Intelligence

Bachelors degree **09/2009–06/2012**

Czech Technical University in Prague - Communication, Multimedia and Electronics - Communication technology

Skills

Languages Czech (Native), English (Fluent)

Programming Scala, Java SE/EE, Python, Shell scripting, C/C++

Analytics Spark, Scalding, Map Reduce, Mathematica, Matlab, R

Patents

Vojtech Letal, Tomas Pevny and Petr Somol. Discovering yet unknown malicious domains using relational data. *Patent pending.*

Publications

Vojtech Letal, Tomas Pevny, Vaclav Smidl, and Petr Somol. Finding new malicious domains using variational bayes on large-scale computer network data. In *Advances in Approximate Bayesian Inference, NIPS 2015 Workshop*, 2015.

Activities

Rock climbing, squash, reading, running, pilates, traveling