

Vít Listík

11.6.1991; Kladno 7, Josefa Bejčka 1259, 273 09, Czechia
+420 728 997 867, vit.listik@gmail.com, tivvit@seznam.cz
<https://www.linkedin.com/in/tivvit>

I'm an enthusiastic and innovative developer interested in Machine learning and Web technologies. Currently, I work on spam and phishing detection in Email team at Seznam.cz. Phishing detection was also the topic of my master thesis, which was awarded by Cisco outstanding thesis award 2015.

Nowadays I'm using image recognition methods for spam detection as part of my Ph.D. studies. In spare time I play with other machine learning tasks and interesting technologies. I am also interested in DevOps, that is why I am working on Kubernetes deployment and LaaS (Logging as a Service) at Seznam.cz.

WORK EXPERIENCE

Python/C++ developer <i>Seznam.cz - Email.cz team, Infra team</i>	7/2014 - present
Biggest freemail provider in Czech Republic (~50M emails/day)	
Anti-spam, Data Processing (Hadoop, Spark), Elasticsearch, Machine Learning, Neural Nets (Keras, Tensorflow), LaaS, Kubernetes (hundreds of servers), Reliable scalable services, Linux, Teamwork	
<ul style="list-style-type: none">• Image processing pipeline (Design and implementation, Convolutional NN)• Email statistics aggregation pipeline - DB writes optimization (Golang, ZMQ, Bloom filter)• Email security - DMARC, DKIM, SPF• DevOps - LaaS, K8s• Aerospike DB (key-value), Elasticsearch, Loki• Science articles reading group (organizer, speaker)	
Freelance Web developer <i>Founder at Web-kladno.cz - ID 87582961</i>	2008 - present
Web applications and presentations - backend (PHP), frontend (JS, HTML5, CSS3)	
IT Administrator <i>Diagnostic Institute for Youth, Prague 2</i>	9/2012 - 2/2015
Administration of Linux server and Windows workstations, Networking, File Sharing	

EDUCATION

Czech Technical University in Prague (CTU)	2015 - present
Faculty of Electrical Engineering (FEL) Artificial Intelligence	Ph.D.
Finished <i>study block</i>	combined
Topic: Image Spam Recognition	
<ul style="list-style-type: none">• Supervision: Prof. Ing. Václav Hlaváč, Csc. and Ing. Jan Šedivý, Csc.• Convolutional NN, Tracking image detection, User reaction prediction, OCR, clustering	
CTU, FEL, Software Engineering	2013 - 2015
Ended by the final state exam	Masters
Master Thesis: Detecting Phishing Emails in Czech Language for Email.cz	
<ul style="list-style-type: none">• Won Cisco Outstanding Thesis Award 2015• Machine Learning (NLP, Bag of Words, Decision trees), Python	
CTU, Faculty of Biomedical Engineering (FBMI), Biomedical Informatics	2010 - 2013
Ended by the final state exam	Bachelors
Bachelor Thesis: Algorithms for Signal Processing in Respiratory Care	
<ul style="list-style-type: none">• iMon - Real-time measuring of respiratory system parameters (C#, Ni-DAQ, Multithreaded)	
Gymnasium Kladno Edvard Benes, general studies	2006 - 2010
Graduation: Math, IT, English and Czech	

PUBLICATIONS

- V Listík, Š Let, J Šedivý, V Hlaváč; Phishing Email Detection based on Named Entity Recognition; ICISSP 2019
- V Listík; CNN based near-duplicate image detection used for email spam detection; Poster 2019
- V Listík, T Gogár; Phishing Email Detection in Czech Language; Poster 2016
- Thesis supervision
 - Šimon Let; Phishing Email Detection based on Entity Recognition; 2017
 - Petr Liška; User Authentication based on Keystroke Dynamics; 2016 (One of the TOP 10 Thesis defended at FEL CTU 2016)
 - Šimon Ondráček; Personalised Antispam filter for Email.cz; 2016

All publications (<https://tivvit.cz/research>)

PROJECTS

YAP - Yet another pipeline ML, Pipeline, Golang	2019 - present
Stalker Active window tracking, Time management, Statistics, Rclone, Python	2018 - present
Autonomous Crypto Currency Trading Real-time, RNN, CNN, Regression, Visualization, Python	2017 - present
Datasets Organizing and searching data sets, experiment consistency and repeatability Based on Goods: Organizing google's datasets. Python, Flask, OSS, Docker	2016 - present
Web applications and presentations <ul style="list-style-type: none">• Surfarena.cz - Custom made reservation system for indoor surfing, PHP• Lodestarcoffe.cz - Custom made eshop, CMS, Nette, Latte, Bootstrap, jQuery, Doctrine• Presentation websites - mostly in PHP and JS. Wordpress or custom made CMS	2005 - present
Devfest RPG Support app for RPG game on Devfest 2014 in CR. REST API, Python, Google AppEngine, OSS	2014
2D cutting stock problem Combinatorial optimization problem solved in Dart. OSS	2013

More projects at tivvit.cz and code at <https://github.com/tivvit>

SKILLS

Languages	Czech - Native speaker English - Very good in writing and reading, good in speaking German - Good in reading, beginner in writing and speaking
IT	Machine Learning, Data Processing, Scalability, Database systems (SQL, NoSQL), DevOps, Cloud, Git, Web technologies, POSIX, OSS Languages: Python, GoLang, PHP, C++, JS
Other	Driving license class B

INTERESTS AND ACTIVITIES

Programming	Programming competitions, Docker, IOT, Distributed Storage, Languages (Rust, Golang), Bitcoin Public speaking - tivvit.cz/talks GDG ČVUT [since 2013] Event organizer GDG Garage Prague [since 2014] Main organizer
Sports	Martial Arts - Systema, Karate (1.kyu) - 3rd-grade trainer, Allkampf-Jitsu (2.kyu), Kickbox (3.kyu) Swimming, Extreme races (Spartan race), Ping-pong
Other	Digital Photography, Technology, Sci-Fi, TV Series, Go

You may find latest copy of my CV at tivvit.cz/cv and tivvit.cz/cv.pdf.