

JAKUB VONSOVSKY



BASIC INFORMATION

Prague 7, Czech Republic
jakub.vonsovsky@gmail.com, +420721330495
Website: jakubvonsovsky.fly.dev/en
LinkedIn: [linkedin.com/in/jakubvonsovsky](https://www.linkedin.com/in/jakubvonsovsky)

WORK EXPERIENCE

ML Ops / Backend developer

Mar 2020 – Present

AIMS

In my role as the backend developer at a small startup, I was responsible for creating numerous programming services and establishing the development and machine learning infrastructure. With my extensive knowledge of IT systems, I did everything that was needed – development of code, optimizing time complexity of our algorithms, dev/ml opsing to productization and deployment of machine learning models.

Eventually, we grew from team of only 3 programmers to the leading company in music recommendation engines and music content analysis, using our proprietary AI models.

Website: <https://www.aimsapi.com/>

- Maintaining ML-ops pipelines – keeping old code alive while writing a new one running on microservices in Kubernetes environment
- Full software development pipeline – design of architecture, complexity analysis, development and cloud deployment
- Monitoring processes and designing improvements
- Used languages – Python, C, Go
- Most notable achievement – sped up a service by factor of 200 by completely vectorizing the previous solution

Machine Learning Engineer

Jul 2019 – Feb 2020

Gauss Algorithmics, Brno

- Building NLP solutions based on LLMs or more traditional approaches
- Quality assessment and selection of appropriate models to enhance existing solutions
- Responsibility of model preparation in Docker containers
- Slowly moving codebase from Tensorflow to PyTorch

Machine Learning Engineer

Mar 2018 – Jun 2019

Neuron Soundware, Prague

Working at AI startup based in Prague. My competences included communication of tasks, analysis and delivery of the solution. This was achieved by application of known techniques (neural networks, sklearn ML methods and others). Additionally, I contributed by implementing innovative concepts from academic papers. Leveraging my background as a software engineer, I occasionally spearheaded the development and enhancement of the company's software. I also played a key role in aligning codes within the machine learning team to ensure seamless interoperability. Successfully managed and delivered projects to notable clients, including BMW and Volkswagen.

- Convolutional neural networks, other ML methods (random trees, clustering)

- Python 3.6, Keras, Tensorflow, Scikit-learn
- Code review in BitBucket, Jenkins as CI tool
- Performing positions of ML Engineer / Researcher and Software Engineer (someone has to make those jupyter notebooks alive)
- Writing reusable and scalable models to be delivered in Docker
- Few delivered projects for big automotive companies
- Created and maintained software libraries used by team
- Automation of processes and tedious tasks

Java developer

Jan 2017 – Jan 2018

Process Systems Enterprise, London

Writing an application for scientific software used by chemical engineers (gPROMS).

- Agile development in 2 week sprints in a small fast-paced team
- All code had to be peer reviewed and deployed afterwards
- Java 8, Python 3, Vue.js

Web-app was written in microservices and used vue.js and Python (Web2py) for front-end.

Salesforce developer in Barcelona, intern

Jul 2013 – Jun 2014

Hotel Ninjas, Barcelona

Being first on-site programmer in fast growing startup in hotel management. It was acquired by Booking.com one year later.

Notable achievements:

- Sped up prototype page written by remote programmer from 16 seconds to 1 second in the first week of my start.
- Learnt Salesforce Apex / VisualForce in 2 weeks and actively started to build the whole project

EDUCATION

Computer Science – Big Data Systems

April 2022 – April 2024

Arizona State University

Completed graduate degree in Big Data with GPA 4.0/4.0. I became a distinguished member of Eta Kappa Nu, International Honor Society for Electrical Engineers (HKN), in 2023.

MS in Artificial Intelligence and Natural Language Processing

Sep 2014 – Jul 2016

Masaryk University

Studying AI with strong emphasis on NLP at Masaryk University. Working in Natural Language Processing laboratory for some time while studying.

One notable project during studies (ML-oriented) was to cluster similar subjects based on such attributes as syllabus, teachers, grades, etc. Results were outstanding.

ERASMUS+ in Computer Science and Technology

Sep 2014 – Jan 2015

JAMK University of Applied Sciences

BS in Artificial Intelligence and Natural Language Processing

Sep 2009 – Jun 2012

Masaryk University

Obtained the BS degree at one of the best public universities in Czech Republic just before AI became cool again.

SKILL SETS

Software engineering

- 10+ years - Python, Javascript, PHP, MySQL, HTML
- 3+ years - Java, C, Docker, Kubernetes, Google Cloud
- 2+ years - Go
- Keras, Sklearn, PyTorch
- CircleCI, Jenkins
- AWS

CERTIFICATIONS AND ACHIEVEMENTS

- ASU Ira A. Fulton Schools of Engineering - Big Data Professional Certification
- Deep Learning specialization on Coursera: <https://www.coursera.org/account/accomplishments/specialization/certificate/7M9KR39PYGQ2>
- Machine Learning by Stanford University on Coursera. Certificate earned on August 23, 2016
- ACM CTU Open 2012 - fifth place in team programming contest for region of Czech and Slovakia and qualification for Central European region at CERC 2012
- Won 1st place at GUG hackathon with latin -> hiragana transcription widget: https://github.com/vonsovsky/scripts/tree/master/hiragana_transcription_opera_widget

LANGUAGES

- Czech - native
- English - C1
- Japanese - had 4 semesters at the University equivalent to JLPT level N5
- German - beginner, can understand spoken and written language with some difficulties

INTERESTS

- Travelling - already visited more than 70 countries
- Programming - I've been hobby coding for over 20 years (developed my first game at age of 13 in QBasic)
- Teaching - I've been giving lectures on programming, especially with in AI field
- Technology enthusiast - delving deep into scientific articles