ŽIGA ZUPANEC, MSc

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EXECUTIVE SUMMARY

A **data engineer** with 5 years of experience in blockchain/crypto and SaaS industry. A characteristic professional who specializes in the whole data life cycle from extracting data to storing data in a data warehouse, making dashboards and interpreting results. A 2015 Master of Computer Science graduate of University of Ljubljana.

FUNCTIONAL EXPERTISE

- **Cloud Architecture**
- **API Design and Development**
- **Advanced working SQL knowledge and experience working with relational databases**

- **A successful history of manipulating, processing and extracting value from large disconnected datasets**
- **Advanced web scraping (captcha busting, bot detection avoidance)**
- **Strong reverse engineering skills**

FUNCTIONAL EXPERTISE DEMONSTRATED

NiceHash d.o.o.   2017 – Present

NiceHash is a largest and leading crypto-mining marketplace with over 1.5M users worldwide.

Data Engineer

I cover activities related to data engineering and data science providing business intelligence insights for executives.

- **Cloud Architecture:** Designed data warehouse for storing large sets of data (GCE, BigQuery, Google Storage).
- **API Design and Development:** Built microservices and API endpoints (Docker, Node.js, Flask).
- **Advanced working SQL knowledge and experience working with relational databases:** Structuring and visualizing the data, dashboards (MetaBase).

University Rehabilitation Institute, Republic of Slovenia – Soča   2013 – 2016

Software developer

Built system to help physicians annotate medical reports faster using Natural Language Processing (NLP) technique.

- **Stack:** Django, postgres, jQuery, JavaScript, HTML, snowball, word lemmatization, word stemming

RELEVANT PROJECTS

Adnalytics, https://adnalytics.io, (intelligence tool for social marketers): Architectural design and backend, Google Cloud, Docker, Airflow, Puppeteer, 200 monthly subscribers ($99 / month). (2019)

Glury, https://glury.com, (distributed video peer to peer content delivery network): Initial idea and implementation, working proof-of-concept, JavaScript, WebRTC, NodeJS, Redis, VueJS

Youtube-mpv, https://github.com/agiz/youtube-mpv, (Chrome extension to play YouTube videos with external player): Idea and execution, JavaScript, chrome extension, python backend (2017)

Ebola, https://ebola.show, (interactive theatre video game): Mobile app (frontend, JavaScript, HTML) and python backend (long-polling), physical wireless infrastructure capable of serving 300 users simultaneously (2016)

Indoor positioning system, http://eprints.fri.uni-lj.si/3332/1/Zupanec.pdf, Developed an algorithm for indoor positioning, MATLAB, C, python, JavaScript (2015)

Reversi board game [Slovenian], https://github.com/agiz/reversi/raw/master/ps-porocilo.pdf, Developed the fastest parallel algorithm at the time, C, CL (2015)

Visualization of MtGox transactions, https://agiz.github.io/bitcoin_mtgox/, Processing, JavaScript (2014)

Predicting a tennis match with network analysis [Slovenian], https://github.com/agiz/predicting-a-tennis-match-with-network-analysis/raw/master/article.pdf, Stanford CS224W Analysis of Networks, Network analysis, Breadth-first search (BFS), PageRank, python, snap (2013)

Shearch, https://github.com/shearch/shearch, (collaborative shell history): zsh, bash, python (2012)

EDUCATION

Master of Science (Computer Engineering). Faculty of Computer and Information Science (University of Ljubljana, Ljubljana)
- GPA 9.1/10.0

Bachelor of Science (Computer Science). Faculty of Computer and Information Science (University of Ljubljana, Ljubljana)
- GPA 9.8/10.0

OTHER RELEVANT INFORMATION

Languages: JavaScript/Node.js, python, R, SQL
Computer skills: Architectural design, software design
Awards: Dean's List—Faculty of Computer and Information Science, Telekom TS Startup Winner
Other: Typing 100 WPM (on a good day •‿•)