



Jan Havluj

Work Experience

2018–present **Software Engineer**, PROFINIT, Prague.

Development and system design of cryptocurrency exchange CoinMate.io. Used technologies include Java 8, Spring, MyBatis, Angular, Docker, Oracle DB, Zkoss, GIT, and YouTrack. Key accomplishments:

- Design, and development of product's entire REST API.
- Introducing a customized YouTrack instance to the development team; writing 30+ Javascript workflows. This led to a drastic increase in team's productivity and my solution has become the default issue tracker for all teams within the company.
- Improving code quality and stability of the product. I have introduced code style guidelines, useful testing, and design-patterns to improve readability and reduce unnecessary errors.
- Being the full stack developer of the team.

2016–2018 **Junior Software Engineer (ALM R&D)**, HPE | MICRO FOCUS, Prague.

I worked on the development of Service Virtualization. My work includes:

- DevOps to deliver our product as SaaS (AWS, Docker, Kubernetes).
- Designing a domain specific language and writing a compiler & an interpreter for it. The DSL is being used to configure the product (Java 8, Rhino, JavaScript, Babel, language design).
- Reverse engineering of Android apps to be able to virtualize their 3rd dependencies without rooting the phone (decompiling apps, inspecting their source code and identifying parts that needed to be virtualized (NFC, bluetooth, and HTTP communications), injecting custom code).
- Recording demos and presenting my work to customers (e.g. virtualizing VW CarNet Android application).

2015–2016 **Backend Web Developer**, DIGITAL BANDITS, Prague.

- Development of the server-side part of a web app called Hubert, a distributed system used mainly as social network for the members of the Impact Hub community.
- DevOps – I helped to design and build the system's architecture, as well as development and release pipelines.
- PHP, Nette 2, Doctrine 2, MySQL, DynamoDB, AWS, ElasticSearch.

2012–2015 **Software Engineer**, FINSense, Kladno.

- Designing and building the company's IS and entire online presence – including their public website, and a platform for selling their real estates.
- PHP, MySQL, Nette 2 (+ HTML, CSS, JS)

2012–2014 **Web Developer**, FREELANCE, Prague.

- Freelance web development for smaller companies (6 clients total).

2011–2012 **IT support**, FINSense, Kladno.

Education

- 2018–present **AI & machine learning**, *Czech Technical University*, Prague.
- 2014–2018 **Computer Science**, *Czech Technical University*, Prague.
- Earning Bachelor's Degree; courses: www.havluj.eu/edu/bs-classes.html
 - Participating in events - Google Dev Fest, mDevTalk, Informatics Evenings
- 2014–Present **Coursera, Code school, MIT OCW, Internet**.
Machine learning, Advanced algorithms, Javascript, ...
- 2012–2013 **Escambia High School**, Pensacola, FL.

Certificates

- 2016 **Machine Learning**, *Stanford University*, Coursera, W534GWHV4SBY.
- 2016 **Database Design and Programming With SQL**, *Oracle Academy*, Prague.
- 2013 **First Certificate of English**, *British Council*, Prague, 0042340198.
Grade: A, Achieved level: C1

Projects nad Open Source

- 2017 **Detecting objects in bird nests using neural networks**, *Tensorflow*.
My bachelor thesis focused on machine learning and image processing.
<https://github.com/havluj/EggDetector>
- 2016 **Winch – prune and anonymize DB data**, GROOVY, MSSQL, Oracle.
As a part of a 4 member team I helped to develop a tool that takes in provided configuration and generates database specific SQL to prune a anonymize data. It was a school project in collaboration with Gem Systems.
- 2015 **CLI Spreadsheet editor**, C++, NCURSES.
<https://github.com/havluj/spreadsheet>
- 2015 **Minimum vertex cover finder**, JAVA, JAVA FX, Genetic programming.
<https://github.com/havluj/evolution>
- 2015 **Stopwatch for AVR Butterfly**, AVR ASSEMBLER.
<https://github.com/havluj/stopwatch>

Skills

- Languages Java, PHP, C/C++, Javascript, Bash, Groovy
- Technologies Linux, Android, AWS, MySQL, Microsoft SQL Server, Oracle DB
- Other GIT, Scrum

Languages

- Advanced **English**, *Achieved level: C1*, bilingual proficiency, 1 year in the US.
- Native **Czech**.
- Basic **German**.