

Jakub Valenta

software engineer, Python and JavaScript specialist

Email: yxgksvby@mailbox.org

Location: Berlin, Germany

Nationality: Czech

Experience

2016 — 2018

Artory, GmbH (Berlin, Germany)

full-stack developer

Project: **Artory Registry**, a secure registry of verified information about artworks and collectibles

Responsibilities: developing an ETL (extract, transform, load) software to process OCR (optical character recognition) data; creating a blockchain smart contract prototype and advising on the use of blockchain technology; developing both the backend and frontend of the Artory Registry web application.

Technologies: **Python, Django, Ethereum, JavaScript, React.js, Docker, AWS.**

2014

SatoshiLabs (Prague, Czech Republic)

JavaScript developer

Project: **Trezor**, a hardware cryptocurrency wallet

Responsibilities: developing the client-side web application that controls the Trezor device.

Technologies: **JavaScript, Angular.js, Grunt, Bootstrap.**

2014 — 2016

freelance web developer

- Launched and maintained a PrestaShop-based e-commerce website with several advanced custom PrestaShop modules.
- Implemented Wordpress themes for small business, personal, and academic websites.

Technologies: **PHP, MySQL, PrestaShop, Wordpress.**

2012 — 2015

Generify (Prague, Czech Republic)

co-founder, Java and JavaScript developer

Project: **Mobile applications for music festivals**

Responsibilities: developing the web-based part of the project: database, API, content management system; managing the server infrastructure; advising on the business strategy of the company.

Technologies: **Java, Play! Framework, JavaScript, jQuery, Bootstrap, Require.js, Google Closure Compiler, LESS, CSS 3, H2 Database, AWS.**

2010 — 2012

Arbes Technologies s.r.o. (Prague, Czech Republic)

YOUR SYSTEM, spol. s r.o. (Prague, Czech Republic)

frontend developer

Project: **Air Bank a. s.** internet banking

Responsibilities: leading the development of the client-based part of Air Bank's internet banking application; design and maintenance of an extensive set of UI components; ensuring high performance and easy extensibility of the frontend; helping with the server-side parts of the application.

Technologies: **JavaScript, HTML 5, jQuery, yepnope.js, Java EE, Wicket Framework, Maven, Ant.**

2008 — 2011

NOVAGUE, s.r.o. (Prague, Czech Republic)

web developer

Representative clients:

- **Raiffeisenbank a.s.**
- **Komerční banka, a.s.** (member of the Société Générale Group)
- **O2** (Telefónica Czech Republic, a.s.)
- **Subterra a.s.**

Responsibilities: developing small and medium size websites and HTML templates for the clients of NOVAGUE design studio.

Technologies: **Python, Django, PHP, HTML, CSS, MySQL, PostgreSQL, SQLite.**

Skills

General

- pure functional and object-oriented programming
- focus on writing simple, understandable, and extensible code
- unit and integration testing
- performing code reviews
- scrum
- leading interviews with job candidates

Technologies

- server-side web development: Python, Django, PHP, Wordpress, Smarty, PrestaShop, Java EE, Play! Framework, Wicket Framework, Maven, Ant, Node.js, Jekyll, Hugo
- client-side web development: JavaScript, ES6, React.js, Angular.js, jQuery, Webpack, HTML 5, CSS 3, SASS, LESS, Bootstrap
- web application deployment: Docker, AWS, Nginx, Apache, Jenkins, Netlify
- version control systems: Git, Subversion
- GNU/Linux administration and Bash scripting, NixOS
- data analysis basics: Numpy, Pandas, Matplotlib, Graphviz
- machine learning and natural language processing (NLP) basics: scikit-learn, NLTK
- blockchain distributed app (dapp) development basics: Ethereum, Solidity
- desktop application development: GTK+, Qt, wxWidgets
- linked open data (LOD) basics: RDF, SPARQL, Schema.org
- L^AT_EX

Education

2009 — 2015

Academy of Fine Arts in Prague (Czech Republic)

Master's degree program, Studio of Intermedia Work

Vice-chairman of the Academic Senate. Member of the Student Chamber of the Council of Higher Education Institutions.

Languages

English: full professional proficiency

German: limited working proficiency

Czech: native speaker

Personal Projects

<https://www.github.com/jakubvalenta>

VideoPi

free and open-source video player installation for the Raspberry Pi micro-computer

<https://videopi.saloun.cz/>

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