



# Andrej Gajduk

## Curriculum Vitae

### Professional summary

Over **4 years of** experience in software analysis, design, development, research and implementation of web applications.

Highly motivated and enthusiastic: I like to experiment with new technologies and build products that open up new business opportunities.

**Worked through all the phases of Software Development Life Cycle (SDLC)** including Requirements gathering, Analysis, Design, Development, Testing, Production and Post-production Support.

### Experience

since 2017 **Full-Stack Developer**, *Mansystems*, Saarbruecken.

Development of web apps with Java and React (Mendix). On personal initiative I started organizing regular knowledge sharing session in the company. Also self-initiatively and outside of my regular duties I developed several reusable UI and back-end components. These components allowed by company to gain a competitive advantage and increase satisfaction for our customers.

2014 – 2017 **Freelancer**, *Upwork*.

Develop in-browser data visualizations using d3 and Highcharts. I focus on dynamic and interactive charts that can be updated with new data on the fly (ajax). I also work on projects involving natural language processing NLP mainly with nltk and CoreNLP.

2014 – 2015 **Researcher and Software Developer**, *IKT Labs*, Skopje.

Developed software solutions in natural language processing by analysing micro-blog texts from a popular social site. Also I used machine learning for link prediction on Twitter.

2012 – 2014 **Teaching and Research Assistant**, *Faculty of Computer Science and Engineering, Ss. Cyril and Methodius University*, Skopje.

Taught undergraduate courses in the field of advanced programming practices and data structures.

### Education

2013–2014 **M.Sc. Computer Science**, *Faculty of Computer Science and Engineering, Ss. Cyril and Methodius University*, Skopje, GPA – 9.85.

2009–2013 **B.Sc. Computer Science**, *Faculty of Computer Science and Engineering, Ss. Cyril and Methodius University*, Skopje, GPA – 9.77.

---

## Selected Projects

eXp Realty enterprise application **Business processes automation software for a real estate brokerage.** Worked as a developer in a small agile team with SCRUM. The MVP was delivered in just two months, within the planned schedule, and was a success for all parties. In the next months we continued to regularly update the product and deliver new features. Among others, I was responsible for a SOAP integration with a financial management solution - Sage Intacct and text search optimization with Lucene.  
Technologies: Mendix, Java, Dojo, Lucene, Sage Intacct

Quickwind **Multi-tenant web-app for debt management.** After receiving the mock-ups, me and a colleague were able to directly implement the main user flows in a functioning demo app within just three days. Because we could deliver the demo so quickly we impressed the customer and eliminated other competitors, winning a new project for our company. The project was finished before the estimated date and was a stepping stone for further collaboration on larger projects with the customer.  
Technologies: Mendix, Java, React, JSON WebTokens, OAuth

Fresno Scorecard **Interactive presentation of USA census data**  
Interactive visualization tool powered by Highcharts that allows users to explore data from the US census. Personally gathered and organized the data and optimized the Mongo database. Also build and deployed the Wordpress website to host the visualization tool.  
Technologies: Selenium, jvectormap, Play, Wordpress, Highcharts

NLP **Natural language processing Toolkit for Financial data.** Wrote an NLP library to extract relevant information from Q10 and Q4 reports, company press releases and financial news. Implemented custom event detection that identifies the most important information in text, e.g. CEO changed, increase in sales. Also detects trends in public opinion.  
Technologies: python, nltk, CoreNLP, malt, scipy

Web Aggregation Framework **Java framework for aggregating text resources from the web**  
Built a library that allows developers to quickly create a web aggregator e.g. Google-News. Provides support for website scraping and schemaless data storage. Integration with Weka facilitates automatic data labeling and near-duplicate identification. Also wrote a detailed guide, and used the framework in the scholarship domain.  
Technologies: java, Jackson, Weka, MongoDB

---

## Awards and certificates

1. place at [CodeFu: 2012 Winter](#) ; 2. Place at [CodeFu: 2012 Autumn](#)  
[Advanced Mendix Developer](#) ; [Machine Learning](#) ; [Mining Massive Datasets](#)

---

## Coding skills

Java, Mendix, Angular, Spring MV, Spring Boot, Jenkins, React, PostgreSQL, MongoDB, Lucene, Python, Git, SVN, VisualVM, Docker, Bootstrap, SASS

---

## Languages

English **Fluent**  
German **A2 - Good basic knowledge**