

Mateja Vulic



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EDUCATION

Formal

Faculty of Technical Sciences, Singidunum University Enrolled in MA study programme: Software Engineering	2019 –
Faculty of Technical Sciences, Singidunum University BA study programme: Embedded Systems Engineering Average grade: 9.32/10.00	2015 – 2019
Faculty of Electrical Engineering, University of Belgrade BA study programme: Electrical and Computer Engineering	2014 – 2015
Electrical Engineering High School "Rade Koncar" Study programmes: <ul style="list-style-type: none">• Computer Technician• Process Control Technician	2010 – 2014

Professional

CISCO Networking Academy, Singidunum University Programme: NDG Linux Essentials	2017 – 2018
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WORK EXPERIENCE

Tecor Lean & Kaizen Consulting, Belgrade Medior Digital Transformation Consultant	2020 –
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Responsibilities:

1. Development of software tools for analyzing and improving clients' business operations
2. Implementation of software business reporting tools
3. Evaluating and defining suggestions for digitalization and improvement of business operations
4. Development of training courses
5. Creating new business contacts and business operations development

Accomplishments:

1. **Research, development, and software implementation of business performance measuring and evaluating methodology:**
 - Research and development of a multi-attribute evaluation model based on implementation of fuzzy membership functions
 - Development of syntax and implementation of an internal domain-specific language ITL based on Python with a special focus on its learnability for non-professional users
 - Development of a graphical IDE containing a mini debugger, two evaluation modules (numerical and graphical evaluation) and one reporting module (Excel reporting).
 - Writing user guides and implementing [online documentation](#)
 - Technologies: Python (libraries: Lark, skfuzzy, NumPy, pandas, Matplotlib, Tkinter, MkDocs, sys, os)
 - Git repository: [Improvement Tracking Language - ITL](#)
2. **Development and implementation of the methodology of analyzing and improving user experience for digital products:**
 - Research and defining metrics for the interface usability analysis based on usability heuristics, Gestalt principles of visual perception, and cognitive engineering
 - Defining the procedure and documentation for conducting usability assessments
3. **Research and development of a two-day training course on agile manufacturing:**
 - Conducting research and producing training course materials
 - Structuring the training course

Azbooky Ltd, Belgrade

2019 – 2020

Software engineer

Responsibilities:

1. Websites and web applications interface design and implementation
Technologies: Angular, HTML, Sass, JavaScript, Adobe XD
2. Creating WordPress themes
Technologies: jQuery, Bootstrap, PHP, WordPress, MySQL

Accomplishments:

Development and deployment of a WordPress website for a client:

- Implementation and development of a responsive interface according to usability heuristics (UX)
- Development of a Mini Shop plugin containing a corresponding database
- Dynamic content loading using AJAX calls
- Development of a multilingual website feature
- Making the website GDPR compliant
- Website address: maximus.rs

Blog datahacker.rs, Belgrade

2018 – 2019

Design, development, and blog maintenance

Technical writing

- Technologies: HTML, CSS, JavaScript, PHP, MySQL

DataScience Bootcamp, Faculty of Technical Sciences, Singidunum University

2018

Creating content, promoting, and lecturing within the project

- Subject: Data Science, Neural Networks

High school workshops, Faculty of Technical Sciences, Singidunum University

2018

Lecturing within the workshop and promoting the faculty's study programme

- Subject of the Data Science workshop: Application of machine learning algorithms
- Subject of the Smarting workshop: Internet of Things, Microcontroller application

Faculty of Technical Sciences, Singidunum University

2018

Student demonstrator within the following courses:

- Artificial Intelligence
- Control Systems Engineering

Maximus Security, Belgrade

2017 – 2018

Security and surveillance systems designing

Creating technical documentation and user guides

Programming PIC microcontrollers

- Technologies: C++, MPLAB, AutoCAD

PERSONAL QUALITIES

- Interpersonal communication
- Teamwork
- Attention to detail
- Problem solving

PROJECTS

Online banking web application

Personal project

Technologies:

- Front-end: Angular, HTML, SCSS, Angular Material
- Back-end: NodeJS, Express, Django
- Databases: MySQL, SQLite3
- Version control: Git
- API testing: Postman

Key features:

- Front-end:
 - User interface design following UX usability principles
 - Pop-up user friendly message errors
 - Custom HTML/CSS e-mail system messages

- Back-end:
 - E-mail registration verification
 - Two-factor password reset (E-mail and SMS)
 - Auto logout and auto login feature
 - Exchange currency list API
- Database:
 - Critical DB queries implemented as transactions (inside stored procedures)
 - Database table design according to ISO 20022 and ISO 4217 standards

User interface prototype for carpooling web application

HCI semester project

Design and implementation of the prototype, documentation, as far as testing and prototype evaluation with end users.

Technologies: Adobe XD

Smart home IoT light controller

Personal project

Programming languages: C++ (Arduino, ESP8266)

Smart home IoT light controller web server

Personal project

Programming languages: C++ (Arduino, ESP8266)

Embedded home automation module

Personal project

Programming languages: Python (Raspberry Pi), C++ (Arduino)

OTHER

Interests: Web application design and implementation, User experience, Multiple-criteria decision analysis

Hobbies: volunteer camps, volleyball, salsa

Languages: Serbian (native), English (professional working proficiency), Russian (elementary proficiency)

RECOMMENDATIONS

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