



Ognjen Tomic

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ABOUT ME

I am a dedicated scientific researcher specializing in Information and Communication Technologies (ICT), with a particular focus on applied AI and MLOps. Currently, I work at the Lola Institute in Belgrade, where I actively contribute to international research projects aimed at technological innovation and industrial application. With an academic foundation and advanced studies in ICT, my work is anchored in the development of practical solutions, including the architecture of modern recommender systems and the application of MLOps in software quality assurance.

My journey has spanned diverse roles, from frontend development for large-scale data-driven web applications to system administration, where I optimized WordPress-based environments for educational institutions. Additionally, my entrepreneurial experience, through founding a tech startup, led to the development of "Smart Start," an innovative application that guides entrepreneurs in selecting profitable business locations, recognized at national competitions in Serbia.

As a professional constantly evolving through practical experience and academic pursuits, I bring a hands-on approach to complex projects, along with a passion for advancing technology to meet real-world needs.

WORK EXPERIENCE

1 SEP 2023 – CURRENT Belgrade, Serbia

SCIENTIFIC RESEARCHER LOLA INSTITUT LTD

Responsibilities of a scientific researcher at Lola Institute:

- **Participation in research projects:** Researchers are engaged in national and international projects, primarily focused on applied research and innovation.
- **Development of new products and technologies:** Applying current scientific knowledge in industrial practice and integrating research results into the development of products and technologies for the global market.
- **Continuous professional development:** Engaging in ongoing education and training to improve professional competencies.
- **Collaboration with academic institutions:** Participating in joint projects, supporting the organization of scientific conferences, and contributing to the advancement of the educational process through student internships.

These responsibilities allow researchers to contribute to the development and application of scientific knowledge in industry, as well as to the improvement of the institute's research work.

I currently have two scientific research papers in the field of MLOps titled:

"Architecture and Development Methodologies of Modern Recommender Systems: A Machine Learning-Based Approach"

This paper explores contemporary architectures and methodological approaches in the development of modern recommender systems, with a particular focus on machine learning applications. It provides guidelines for best practices in creating scalable, efficient, and adaptable recommendation systems.

"Applying MLOps in Software Quality Assurance of the Analytics Application Market"

This study examines the application of MLOps principles in software quality assurance within the analytics application sector. It highlights how MLOps can enhance software reliability, streamline model deployment processes, and improve the overall quality of analytics solutions.

Together, these studies contribute to advancing MLOps in the domains of recommender systems and quality assurance processes for software solutions in analytics applications.

22 NOV 2022 – 1 APR 2023 Belgrade, Serbia

BUS LOGIC - INTERN FRONTEND - INTERN

Frontend Intern - HTML, CSS, JavaScript, Ajax, PHP, MySQL

During my internship as a Frontend Developer, I worked on an exciting project that involved the development of a website showcasing over 40,000 bus stops from around the world. The project can be viewed at <https://stajalista.rs/>.

Key Technologies Used:

- **HTML:** I utilized HTML to structure the content of the website and create semantic markup for optimal accessibility and search engine optimization.
- **CSS:** I employed CSS to style and visually enhance the website, ensuring a polished and user-friendly interface.
- **JavaScript:** I leveraged JavaScript to add interactive elements and dynamic functionality to the website, creating a seamless user experience.
- **Ajax:** I utilized Ajax to implement asynchronous data retrieval and update specific sections of the web page without requiring a full page reload.
- **PHP:** I used PHP for server-side scripting, handling form submissions, and interacting with the backend database.
- **MySQL:** I worked with MySQL to design and manage the database that stored the extensive collection of bus stop information.
- **Project Details:** The objective of the project was to develop a comprehensive platform that allows users to search and explore bus stops worldwide. The website incorporated a user-friendly interface with intuitive search functionality, enabling users to search for bus stops based on various criteria, such as location, city, or specific routes. The project involved integrating and displaying extensive data about each bus stop, including geographical coordinates, routes, and related information.
- My responsibilities included implementing the frontend components of the website, ensuring cross-browser compatibility, and optimizing the website's performance. I collaborated with the backend development team to establish seamless integration between the frontend and the backend systems. Additionally, I conducted extensive testing and debugging to ensure a smooth and error-free user experience.
- Throughout this project, I gained valuable experience in frontend development, working with multiple technologies to deliver a dynamic and feature-rich website. I further honed my skills in responsive web design, data visualization, and effective UI/UX implementation.

The project successfully achieved its goal of providing a user-friendly platform for users to explore bus stops globally, and I am proud to have contributed to its development.

1 FEB 2022 – 1 FEB 2023 Belgrade, Serbia

MEGATREND UNIVERSITY SYSTEM ADMINISTRATOR - WORDPRESS SPECIALIST

System Administrator - WordPress Specialist at Megatrend University

As a System Administrator - WordPress Specialist at Megatrend University, your role will be vital in ensuring the smooth operation and maintenance of the university's WordPress-based systems.

- **System Administration:** You will be responsible for the administration and management of the university's WordPress-based systems. This includes installation, configuration, and maintenance of WordPress instances, plugins, themes, and related components.
- **Troubleshooting and Support:** You will provide technical support and troubleshooting for any issues related to the WordPress systems. This may involve identifying and resolving system errors, performance optimization, and ensuring system security.
- **System Upgrades and Maintenance:** You will be involved in performing system upgrades, including WordPress core updates, plugin updates, and theme updates. Regular maintenance tasks such as backups, database optimization, and monitoring system performance will also be part of your responsibilities.
- **User Training and Documentation:** You will conduct user training sessions to educate university staff and faculty on the effective use of WordPress systems. Additionally, you will create and maintain documentation, including user guides and standard operating procedures.
- **Collaboration and Project Management:** You will collaborate with the university's IT team and stakeholders to implement new features, functionalities, and enhancements to the WordPress systems. This may involve managing projects, coordinating with developers, and ensuring timely delivery of projects.

- **System Security:** You will implement and maintain security measures to protect the WordPress systems from potential threats and vulnerabilities. This includes monitoring for security breaches, implementing security patches, and enforcing security best practices.
- **Stay Updated:** You will stay informed about the latest trends, developments, and best practices in WordPress and system administration. Continuous learning and professional development will be essential to enhance your skills and knowledge.

Note: This job description is specifically tailored for the position of a System Administrator - WordPress Specialist at Megatrend University and may vary for other organizations or institutions.

1 SEP 2021 – 22 NOV 2023 Belgrade, Serbia

PRIMARY SCHOOL "FRANCE PREŠERN" INFORMATICS TEACHER IN PRIMARY SCHOOL

Description of the job of an IT teacher in the Republic of Serbia:

IT teachers in the Republic of Serbia play a crucial role in educating students in the field of information technology. Here is a description of the job of an IT teacher in Serbia:

- **Teaching basic computer skills:** IT teachers typically work with students of different age groups, ranging from primary school to secondary school. Their task is to teach students basic computer skills, such as operating system usage, office software, internet browsing, and more. They may also introduce students to fundamental programming concepts and algorithms.
- **Planning and delivering lessons:** IT teachers prepare lessons and teaching plans in accordance with the curriculum. They employ various teaching methods, including lectures, demonstrations, exercises, and practical assignments. Their aim is to provide students with practical knowledge and skills in the field of IT.
- **Evaluating and grading students:** IT teachers assess students' work through tests, projects, assignments, and other activities. They monitor students' progress and provide feedback to help them improve their skills. Additionally, they may organize IT competitions and support students in acquiring additional skills and knowledge.
- **Maintaining computer equipment:** IT teachers are often responsible for maintaining computer equipment in school laboratories. This includes software installation and updates, troubleshooting technical issues, and ensuring proper functioning of computers and networks.
- **Professional development:** As teachers, they need to stay informed about new technologies and trends in the IT field. Continuous professional development allows them to enhance their skills and knowledge and impart the latest findings to their students.

Note: Job descriptions for IT teachers may vary depending on the educational level (primary or secondary school) and specific requirements and programs of the school. This description provides a general overview of the job of an IT teacher in the Republic of Serbia.

1 AUG 2020 – 1 OCT 2020 Belgrade, Serbia

INTERNSHIP PROGRAM ITOIP PROJECT

IT OiP, is a company that organizes training and development of IT professionals, as well as their employment. The goal was to write a Java program, using the software tools of HTML and CSS and defend it before an expert commission.

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14 DEC 2018 – 14 FEB 2020 Belgrade, Serbia

FOUNDER SMART START SOFTWARE

I would like to explain what my Application does. SMART-START is a DEMO program I developed in 2018.

It communicates with databases of Business Registers Agency of Serbia and Statistical Office of the Republic of Serbia. Based on a n analysis of the data shared by mentioned Government agencies, Smart Start application creates a report which recommends a suitable location within Belgrade, where it's most profitable to start a small Business. My colleague and I, participated in the most prestigious State of Serbia competition, called: "The Best Technological Innovation".

The average project rating was 4.5 / 5 with 22nd place of 4160 ideas.

Participation in two State competitions: "The best technological innovation (NTI)", and "The economic forum of young people (PFM)"

● EDUCATION AND TRAINING

1 NOV 2023 – CURRENT Cacak, Serbia

PHD STUDIES - INFORMATION AND COMMUNICATION TECHNOLOGIES Faculty of Technical Sciences
Čačak

Website <http://www.ftn.kg.ac.rs/en/> | **Field of study** Information and Communication Technologies | **Level in EQF** EQF level 8 |

National classification 8

1 OCT 2020 – 4 JUL 2023 Belgrade, Serbia

MASTER OF SCIENCE IN IT MEF Faculty

- occupational techniques (making of standard breads, fancy breads, cakes and pastries)
- science applied to food and equipment (microbiology, biochemistry, hygiene)
- occupational technology (basic principles, hygiene and safety)
- knowledge of business and its economic, legal and social context

Website <https://mef.edu.rs/eng/mef-faculty> |

Field of study Information and Communication Technologies (ICTs) not further defined | **Final grade** 9.73/10 |

Level in EQF EQF level 7 | **National classification** 7.1 - master academic studies scope of at least 60 ECTS credits |

Type of credits ECTS | **Number of credits** 300 |

Thesis Master project: "Concept and importance of market research software application development and competition".

1 OCT 2017 – 10 FEB 2021 Belgrade, Serbia

BACHELOR WITH HONOURS IN IT MEF Faculty

Website <https://mef.edu.rs/eng/mef-faculty> |

Field of study Information and Communication Technologies (ICTs) not further defined | **Final grade** 7.83 |

Level in EQF EQF level 6 | **National classification** 6.2 | **Type of credits** ECTS | **Number of credits** 240 |

Thesis Graduation project: "Virtual Health".

Belgrade, Serbia

BACHELOR OF SCIENCE IN IT ITS – Information Technology School

Website <https://eng.its.edu.rs/> | **Field of study** Information and Communication Technologies (ICTs) not further defined |

Final grade 7.88 | **Level in EQF** EQF level 6 | **National classification** 6.1 | **Type of credits** ECTS | **Number of credits** 180 |

Thesis Graduation project: "Smart Start Software".

8 JAN 2020 – 8 APR 2020 Belgrade, Serbia

FUNDAMENTALS OF JAVA PROGRAMMING Kampster

- Variables and data types
- Operators
- Objects and classes
- Interfaces
- Inheritance in Java
- Flow control
- Loops
- Arrays
- Essential research skills

Website <https://www.thecampster.com/rs/>

- Algorithms
- Variables
- Arrays and multidimensional arrays
- Flow control statements
- Introduction to object-oriented programming

Website <https://www.thecampster.com/rs/>

13 NOV 2019 Online

TELF - ENGLISH CERTIFICATION TELF - Professional development institute

We at The TEFL Professional Development Institute have simplified the TEFL teacher training and certification process to help you gain the skills of a modern, qualified and professional TEFL teacher. We aim to make education accessible to everyone through our 120-Hour Online TEFL Course.

Website <https://theteflcertificate.com/>

● **LANGUAGE SKILLS**

Mother tongue(s): **SERBIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	B2	B2	B2	B2	B2
GERMAN	A1	A1	A1	A1	A1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

● **DIGITAL SKILLS**

Programming with Python, Node js, Ruby, Bash, React, Js | html | css | javascript | php | ajax | css - materialize | MySQL | Microsoft Office | Basic Knowledge in Data Mining (knime, ...) | Waikato Environment for Knowledge Analysis (WEKA) | Basic Knowledge Kotlin | Artificial Intelligence in Business | MLOPS | Java and Java Web | Materialize.css | Jira | Firebase: Firestore, FirebaseAuth, Firestorage, RealTime database

● **DRIVING LICENCE**

Driving Licence: B

● **HOBBIES AND INTERESTS**

Diving

Fishing

Traveling
