



Luka Miletic

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SUMMARY

Master's student at the School of Electrical Engineering, University of Belgrade, department of Computer science and informatics, primarily interested in working on compelling and challenging projects. Enthusiastic to try out technologies and tools which I have never encountered before. Eager to improve current and attain new skills through various tasks and team work!

SKILLS

- Programming languages: **Java, C, C++**, Python, SQL, JavaScript
- Tools: Visual Studio, Android Studio, NetBeans, Eclipse, StarUML, Gephi
- Operating systems: Windows, Linux
- Other skills: **Gossiping algorithms, Distributed and concurrent programming, Blockchain, Android application development**, Algorithms and data structures

WORK EXPERIENCE

Singidunum University, Belgrade, Serbia

September 2018 — Present

Research and teaching assistant

- Research on fault-tolerant distributed systems (Tendermint blockchain and gossiping algorithms).
- Teaching courses on algorithms and data structures (JAVA), programming (C, C++), mobile application development (Android) and software specification (UML). Lectures in Android, C and UML are **conducted in English**.

School of Electrical Engineering, University of Belgrade, Serbia

October 2017 — Present

Student assistant

- Supervising and grading laboratory exercises in Object Oriented programming, Structural programming and UML Design.

NF Innova, Belgrade, Serbia

April 2017 — June 2017

Software Developer Intern

- Member of mobile application development team.
- Worked on developing Android applications for e-banking.
- Learned Swift programming language (for iOS platform).

PROJECTS

Improving efficiency of Tendermint gossiping algorithm (July 2018 - November 2018):

- Conducting research on how to improve the Mempool gossiping algorithm.
- Primary research scope was focused on client-based, structured overlay and dynamic overlay gossiping algorithms. Secondary research scope was focused on BAR gossip.
- Research supervisor was Zarko Milosevic, Research Scientist at Tendermint.

Formal and simulation analysis of data dissemination algorithms in a blockchain network (Senior thesis): improving the performance of a gossiping algorithm used in Tendermint; available online in: https://github.com/lukamiletic95/senior_thesis

Student presence tracking application at Singidunum University (Python, NodeJS, Java, SQL): implementation required creating a distributed client-server architecture using Raspberry Pi with the goal of logging the presence of students during lectures.

Backgammon Android platform game implementation (Java, Android): implementation included working with MultiTouch, MediaPlayer, Sensors, Android SQLite database.

PID regulator implementation (MicroC): implementation included enabling ping-pong ball levitation in a 3m length tube, using a hair dryer fan; the same principle is used in cruise control in modern vehicles.

Multithreading operating system kernel with time sharing (C++): implementing threads, semaphores, events and thread fork.

MicroJava compiler (Java): implemented using AST cup and JFlex, compiler could perform all basic functions lexical analysis, syntax analysis, semantic analysis and code generation.

EDUCATION

Master's degree

October 2018 — Present

School of Electrical Engineering, University of Belgrade, Serbia

- **GPA 10/10.**
- Taking courses in functional programming (Scala), machine learning and natural language processing and social networks analysis.

Bachelor of Electrical and Computer Engineering

October 2014 — September 2018

School of Electrical Engineering, University of Belgrade, Serbia

- **GPA 9.36/10.**
- **Student mentor** of first year students at my college.
- **Private lessons/tutoring** students in various subjects (structural programming, object oriented programming, concurrent and distributed programming, algorithms and data structures, microprocessor systems, compilers, database systems).

High school graduate

September 2010 — June 2014

Grammar School , Paracin, Serbia

- **GPA 5/5.**
- **Valedictorian.**

PUBLISHED PAPERS

1. Luka D. Miletić, Žarko M. Milošević, Marko J. Mišić, Jelica Ž. Protić , **Simulation analysis of data dissemination algorithms in a blockchain network**, Telfor - Telecommunications Forum, Nov. 2018.

LANGUAGES AND ADDITIONAL INFORMATION

- **English [C1 level] - Cambridge certificate in advanced English (CAE), grade A.**
- **Serbian - native.**
- **US B1/B2 Visa - expiry date: June 2028**
- **Driver's license - B category**