

MARKO BRKIC

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EDUCATION

- Sep 2015 - Jun 2019 **High school diploma**, IT
Belgrade, *Računarska gimnazija (Computing high school)*
- Graduated with a GPA of 5.0/5.0
 - Participated in a lot of class related team projects, learned how to operate and create synergy as a team member
 - Competed in physics and mathematics at a national level
- Oct 2019 - Jun 2023 **Bachelor of science**, Computer Software Engineering
University of Belgrade, *Faculty of Electrical Engineering*
- Completed the first five semesters with a GPA of 8.72/10
 - Courses: Data Structures & Algorithms, OOP C++, OOP Java, Databases, Web applications, Operating systems, Neural networks, Design patterns etc.
 - Competed in FON Hackaton, looking forward to competing in as many hackatons as possible in the future

PROJECTS

- [Github](#) **Operating system kernel**
- Implemented a simplified, but fully functional kernel from scratch written in C++ and assembly for Intel 8086 architecture for Operating Systems I class
 - It supports multithreading, event handling and semaphores
 - Helped me better understand how operating systems work by building one

- Jan, 2022 **Operating system schedulers**
- Created a functional Completely Fair Scheduler and approximations of preemptive and non-preemptive Shortest Job First schedulers in C++ for my Operating Systems II class
 - Integrated the schedulers into operating system xv6, which was created by MIT's Operating Systems course

- Jan, 2022 **Java application for monitoring network devices**
- Built a Java application that uses SNMP API to monitor BGP, OSPF and RIP real-time network parameters for Computer Networks II course

- [Github](#) **Blockchain educational platform** (In progress, more info on Github)
- Used TypeScript, React, NextJS, MaterialUI, [MDXjs](#) and [Moralis](#) SDK to develop basic features of the website such as responsiveness, crypto wallet authentication, browsing and writing articles which are stored in a MongoDB database that I designed
 - Adopted modern web development concepts such as React state, hooks, incremental static regeneration and others

EXPERIENCE

Dec 2018 - Sep 2019 **Software developer intern**, *SOL Software* www.sol.rs

- Developed JavaScript components for an online educational website which grade school teachers and students used in Serbia
- The components made it easy for teachers to create tests containing of questions and mini-games for students by filling out simple forms
- Fixed already present bugs, which taught me how to better read and understand code other people wrote
- Tested the upgraded version of the website, found bugs and recommended upgrades to my colleagues which they implemented
- Introduced the system to a new intern near the end of my time there

SKILLS

- **Programming:** JavaScript/TypeScript, C++, C, Python, Java, Solidity
- **Languages:** English C2 CAE diploma, French B2 DELF diploma
- **Other:** React, NextJS, SQL, Git, CSS, Bootstrap, Django, Office, Figma, Tailwind CSS, Material UI, npm