
Nikola Jovanović

Address: Antifašističke borbe 2/14, Belgrade 11070, Serbia
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Date of birth: 8th November 1996

Education:

- **School of Electrical Engineering, University of Belgrade** Belgrade, Serbia
Software Engineering Department, 4th Year
Average mark: 9.46 / 10.0
2015 – present
- **IX Belgrade Gymnasium “Mihailo Petrovic Alas”** Belgrade, Serbia
Natural Sciences and Mathematics Department
Average mark: 4.7 / 5.0
2011 – 2015

Skills and certifications:

- Experienced in: C/C++, Python and Java
- English level C1 (CAE - *Cambridge Advanced English* certificate) June 2016

Work experience:

- **Research Fellow**, Rice University Houston, Texas, US
○ Participated on a project which aims to speed up OpenIFS weather simulations by using neural networks instead of CFD algorithms
○ Worked on preprocessing training and test data using PCA compression
June 2018 – September 2018
- **Software Engineering Intern**, Microsoft Development Center Serbia Belgrade, Serbia
○ Worked in “Havok” physics engine team, which is developing high performance particle sub-engine
○ Migrated deprecated demos to the new platform
○ Implemented basic fluid simulation and rendering utility
August 2017 – December 2017
- **Assistant at Petnica Science Center**, Computer Science department Valjevo, Serbia
○ Giving lectures on CS topics (Python, machine learning)
○ Mentoring participants’ projects
January 2017 – present

Projects:

- "Gravity Crusher" real time multiplayer web game – University project March 2018 – June 2018
○ Demonstration of project lifecycle with extensive documentation and testing
○ Used technologies: Node.js (http and socket servers), MySQL, Bootstrap, JavaScript, WebGL (game rendering)
○ <https://github.com/NikolaJov96/GravityCrusher>
- Virtual memory manager simulation – University project (c++) December 2017
○ Supporting shared memory segments, multiple page swapping algorithms, process cloning with copy-on-write and thrashing preemption
- Multithreaded OS kernel with time sharing – University project (bcc compiler) April 2017 – June 2017
○ Low level implementation of threads, semaphores, preemptive context switching, event (interrupt) handlers and thread communication signals

Competitions:

- EESTech Challenge ML hackathon – international round in Novi Sad, Serbia May 2018
○ 2nd place, developed Spark scripts for analyzing provided customer data
 - EESTech Challenge ML hackathon – international round in Zurich, Switzerland May 2017
○ Team developed solution for detection and recognition of different cows on the picture, with provided very limited training set
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