

# LUKA JOVIČIĆ

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## EXPERIENCE

### JUNIOR SOFTWARE ENGINEER | CENTILI

OCT 2019 – PRESENT

### SOFTWARE ENGINEER INTERN

AUG – OCT 2019

As a part of the core engine team, my work usually consists of maintaining and upgrading the heart of the platform which processes over 1.5 million transactions daily. My main projects are building an API Gateway system from ground up and containerizing and upgrading the CI/CD pipeline. I've enhanced analytics collection and worked on migrating from RMI to HTTP communication between services. I was also a part of a strike team which developed new microservices and adapted existing infrastructure for emerging business needs. I've had the chance to work with Cloudflare and its serverless Workers platform to cut loading time of payment pages for up to 2 seconds.

### WIKI AMBASSADOR | WIKIMEDIA SERBIA

DEC 2018 – PRESENT

As a student Wiki ambassador, I've worked with other Wikimedia volunteers, established new partnerships between Wikimedia Serbia and teachers and professors, envisioned student projects which contribute to Wikipedia and Wikidata, hosted workshops, and overseen and assisted in students' work.

## FORMAL EDUCATION

### FACULTY OF MATHEMATICS

UNIVERSITY OF BELGRADE

BSc INFORMATICS, 240 ECTS | OCT 2018 – PRESENT

I'm currently finishing 3<sup>rd</sup> year of Bachelor studies in Informatics, passing all exams on schedule. During the course of my studies, I've developed a configurable ballistic [flight path simulator](#) in Python. I was also a part of the team which developed [bouncing ball animation](#) in pure OpenGL.

### MATHEMATICAL GRAMMAR SCHOOL

SEP 2014 – JUN 2018

I graduated from a school with High National Distinction status, specialized for mathematics and related disciplines, with 5/5 grade. My [graduation thesis](#) on data scraping and analysis of national primary school graduation results was selected as [one of the best informatics theses](#) for school year 2017/18.

## EXTRACURRICULARS

### CS WEEK AT MGB (2018)

I held a lecture on exploratory data analysis at 2018 edition of [Computer Science Week at Mathematical Grammar School](#) for selected students. I've built a demo web app written in R [available on my GitHub](#).

### ENGLISH LANGUAGE CONFERENCES

I've co-authored and presented papers (with high school teacher and peers) on Canadian film and teaching English as a second language at two international language conferences in [Belgrade \(2017\)](#) and [Celje \(2018\)](#) respectively.

## TECH STACK

**Main toolbox:** Java, Spring Boot, Docker, Jenkins, PostgreSQL, Kotlin

**Familiar with:** C, Bash, Python, R, Play! Framework, Android, WildFly, JavaScript, HTTP,  $\text{\LaTeX}$

**Experimenting with:** Scala, Redis & Sentinel, Docker Swarm, distributed computing, Prolog, C++

**Curious about:** Rust, Go, big data, GCP, neural networks

## INFORMAL EDUCATION

### Petnica Summer Insitute

Machine learning, 2019

I've participated in an intensive 10-day bootcamp on machine learning, organized by Microsoft Development Center Serbia and Petnica SC. After partaking in lectures and workshops, I've worked on a project which used a conditional generative adversarial network to generate metal album cover arts. Our testimonial is featured [on the PSI:ML website](#).

### Petnica Science Center

Psychology seminars, 2017–18

I've taken part in various lectures and workshops about research psychology. After writing practice papers and projects, I spent one year working on my own research on the role of emoticons and emojis in nonverbal irony, presented at the annual "Step Into Science" conference and published in Petnica Papers.

### JCon

Online conference, 2020

I've attended one of the largest Java conferences, learning about the future of Java, trends in microservice development in 2020, best testing practices and pathways to cloud native apps. [My notes are available on Gist](#).

## SCHOLARSHIPS

**National scholarship for students** (2019/2020, 2020/2021) by Ministry of Education, awarded to higher education students which maintain exceptional GPA (9.0 or higher out of 10) and have maximum study efficiency.

# SELECTED PROJECTS

## STORIES | LIBRARY & ANDROID APP

Java Android Play! Framework PostgreSQL

App for creating, sharing and playing choose-your-adventure stories. I've designed a simple procedural language for storytelling and implemented a platform-agnostic interpreter (open source). Android app (proprietary) features a code editor, a visual story editor and an online marketplace. It won Special prize for innovativity at Telekom Srbija Regional App Challenge 2018.

## UPIS SUITE | DESKTOP & WEB APPS

Java Play! Framework Swing PostgreSQL Javascript

Three apps designed to work together in order to collect and interpret data about Serbian primary schools. I've built a scraper which collects students' grades and graduation data, enrolment simulator with support for custom rules, SQL-like data plotting language, web frontend for plots, performant plotter in Swing (able to handle and modify over  $10^5$  points) and a visual query builder for desktop. Data and code is freely available on my GitHub.

## CHAT SURVEYS | WEB APPS

R Tidyverse PostgreSQL Java Spring Boot

A set of apps which transform surveys to conversational format, using Facebook messages as proof of concept. My role was focused on interpreting existing engagement data and building dashboard for future analytics in R's shiny framework, supporting simple plots as well as inference methods such as linear regression and PCA. The project won 3<sup>rd</sup> prize at RAF Hakaton 2019.

## VIDEO COMPRESSOR | WEB APP

Kotlin Spring Boot PostgreSQL ffmpeg

A web app which transcodes videos using x265 codec and applies size optimizations for video and audio data. It can use one or more worker nodes to speed up the process, as well as act as a worker for configured master nodes.

## CV | INTERACTIVE DOCUMENT

L<sup>A</sup>T<sub>E</sub>X Font Awesome

I've designed, made-up and built this very document on top of L<sup>A</sup>T<sub>E</sub>X's minimal document class. It makes use of interactive PDF features which are not universally supported (e. g. in browsers), but falls back gracefully.

# MORE PROJECTS

CLICK THE 

## NOTEKEEPER | ANDROID APP

Java Android Play! Framework PostgreSQL

## MINIMALHTTPCLIENT | JAVA LIBRARY

Java

## LAB INVENTORY | WEB APP

Kotlin Spring Boot PostgreSQL Thymeleaf

## BG BUS | ANDROID APP

Java Android

# COMPETITIONS

**RAF Hackathon** (team, 2020)  
3<sup>rd</sup> prize for Chat Surveys

**Telekom Srbija Regional App Challenge** (2018)  
Special prize for Stories

**RAF Challenge** (2017)  
Finalist with UpisDesktop

**mt:s App Competition** (2016)  
2<sup>nd</sup> prize for Notekeeper

**mt:s App Competition** (2015)  
2<sup>nd</sup> prize for BgBus

**National programming competitions** (2014–2017)  
Qualified to the national level

**National programming competitions** (2012–2014)  
Qualified to Serbian Informatics Olympiad

**National programming competitions** (2011/12)  
3<sup>rd</sup> prize at National competition

# INTERESTS

**Design:** I especially enjoy document design, be it a CV or a research poster. I can usually find my way around Adobe InDesign and Illustrator.

**Creative writing:** When not writing computer programs or technical documentation, I tend to write a story or two. In 2016, my short story "Trapped in the Dollhouse" won 2<sup>nd</sup> prize at My English Book competition.

**Philosophy, science, law:** Tired of tech talk? Strike up a conversation about paradox of tolerance, statistical inference, or state sovereignty and I'll follow!

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Curious about even more projects? Check out my GitHub and Polywork!