

## VLADIMIR NIKOLIĆ

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## SKILLS

BIOINFORMATICS	SYSTEMS & LOW LEVEL	DATA SCIENCE
Genome Assembly Variant Calling Illumina, Linked Reads	Linux, Bash C, C++, Rust, x86, ARM Arduino, Raspberry Pi, STM32 Computer Architecture Basic Electronics	Deep Learning, Tensorflow Computer Vision, OpenCV Python SQL, PostgreSQL
COLLABORATION	WEB & MOBILE	LANGUAGES
UML Git LaTeX	Python, Django, Flask Bootstrap, jQuery HTML, CSS, Javascript Java, Android	Serbian ( <i>Native speaker</i> ) English ( <i>Fluent, IELTS 8 / CEFR C1</i> ) German ( <i>Basic</i> )

## EDUCATION

<b>University of British Columbia, Faculty of Science (<a href="https://www.ubc.ca">ubc.ca</a>)</b> <i>MSc in Bioinformatics</i>	Vancouver, Canada Winter 2018 – present
<b>University of Belgrade, School of Electrical Engineering (<a href="https://etf.bg.ac.rs">etf.bg.ac.rs</a>)</b> <i>BSc in Software Engineering</i> CGPA: 9.54/10.00, Thesis: "Cloudiness Estimation using Convolutional Neural Networks".	Belgrade, Serbia Autumn 2013 – Spring 2018

## PUBLICATIONS &amp; CONFERENCE PROCEEDINGS

<b>International Meteor Conference 2018 Proceedings (<a href="https://imo.net/">imo.net/...</a>)</b> "Automation of a meteor video network" Nikolić, V; Golubović, S;	Pezinok-Modra, Slovakia Summer 2018
<b>International Meteor Conference 2017 Proceedings (<a href="https://imo.net/">imo.net/...</a>)</b> "Cloudiness estimation for video meteor observations" Nikolić, V; Schröder, L; Tešić, A;	Petnica, Serbia Autumn 2017

## WORK &amp; RESEARCH EXPERIENCE

<b>Institute of Physics Belgrade Innovation Centre (<a href="https://ic.ipb.ac.rs">ic.ipb.ac.rs</a>)</b> <i>Internship, Teslagram Project</i> (Computer Vision, OpenCV, C++, High Performance Computing) Devised and implemented a custom visual pattern comparison algorithm and administrated the local Paradox supercomputer.	Belgrade, Serbia Spring 2018, Autumn 2018
<b>PRACE Summer of HPC (<a href="https://summerofhpc.prace-ri.eu">summerofhpc.prace-ri.eu</a>)</b> <i>Internship, ABYSS Assembler (<a href="https://github.com/">github.com/...</a>)</i> (C++, High Performance Computing, Bioinformatics) Improved the performance of one of the genome assembling stages, Sealer, with the use of OpenMP and MPI.	Ostrava, Czech Republic Summer 2018
<b>Open Source</b> <i>Contributor, Meteorflux Project (<a href="https://meteorflux.org">meteorflux.org</a>)</i> (Python, Flask, Bootstrap, jQuery, AWS, Leadership) An open source project by the International Meteor Organization for analysing meteor shower activity. I lead a team of volunteers from Petnica Meteor Group that fixes bugs and adds additional features.	Autumn 2017 - Summer 2018
<b>Startup</b> <i>Co-founder, Medici Project</i> (Finance, Android, OpenCV, Machine Learning, Python, Django) Attempted and failed a startup. The idea was to create a personalized assistant for every day financial tasks. Failed due to team's diverging future plans.	Belgrade, Serbia Autumn 2017 - Spring 2018

A software package that outlines night sky clouds in All Sky

images for the purposes of video meteor observations.

Presented at International Meteor Conference 2017.

Awarded 3rd place on IEEEESTEC - 10th International Students

Projects Conference.

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## OTHER ACTIVITIES

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**UBC Orbit** ([ubcorbit.com](https://ubcorbit.com))

*Aspectu Project*

(C++, STM32, FreeRTOS)

Member of the UBC Orbit student club whose mission is to build

and launch a cubesat capable of capturing images of Earth.

Vancouver, Canada

Winter 2018 - Autumn 2019

**Personal Project**

*Meteor Observation Notebook* ([play.google.com/...](https://play.google.com/...))

(Android, Java)

An Android application that aids visual meteor observations.

Adjusted not to distract at night time and to help later data

analysis.

Autumn 2017

**International Meteor Conference 2017** ([imo.net/...](https://imo.net/...))

*Member of the local organizing committee*

(Organization)

Helped organize the conference, introduce attendees and provide

technical support.

Petnica, Serbia

Autumn 2017

**Personal Project**

*Arch Setup* ([github.com/...](https://github.com/...))

(Linux, Bash)

A set of Bash scripts that automate the setup of various Arch

Linux components to make it functional and user friendly.

Spring 2017

**University of Belgrade, School of Electrical Engineering** ([etf.bg.ac.rs](https://etf.bg.ac.rs))

*Student Mentor*

(Soft Skills)

Introducing and helping out freshmen with university's

organization and classes.

Belgrade, Serbia

Autumn 2015 - Autumn 2016

**University of Belgrade, School of Electrical Engineering** ([etf.bg.ac.rs](https://etf.bg.ac.rs))

*Student Demonstrator*

Overseeing laboratory practices and grading students'

assignments.

Belgrade, Serbia

Autumn 2014 - Autumn 2017

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## INTERESTS & HOBBIES

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Nature and Urban Exploring • Freeclimbing • Parkour • Snowboarding • Soft Martial Arts • Meteor  
Observation