

VLADIMIR NIKOLIĆ

📍 Vancouver, Canada ✉ vladimir0x00@protonmail.com 📞 (+1) 778 927 2579 🌐 github.com/schutzekatze

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

University of British Columbia, Faculty of Science (ubc.ca) <i>MSc in Bioinformatics</i>	Vancouver, Canada Winter 2018 – present
University of Belgrade, School of Electrical Engineering (etf.bg.ac.rs) <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 & CONFERENCE PROCEEDINGS

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

WORK & RESEARCH EXPERIENCE

Institute of Physics Belgrade Innovation Centre (ic.ipb.ac.rs) <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
PRACE Summer of HPC (summerofhpc.prace-ri.eu) <i>Internship, ABYSS Assembler</i> (github.com/...) (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
Open Source <i>Contributor, Meteorflux Project</i> (meteorflux.org) (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
Startup <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

Petnica Summer Institute Machine Learning 2017 (psiml.petnica.rs)
Participant, All Sky Cloudiness Estimator Project (github.com/...)
(Python, Tensorflow, OpenCV)

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.

Petnica, Serbia
Autumn 2017 - Spring 2018

OTHER ACTIVITIES

UBC Orbit (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 - present

Personal Project

Meteor Observation Notebook (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/...)

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/...)

(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)

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)

Student Demonstrator

Overseeing laboratory practices and grading students' assignments.

Belgrade, Serbia
Autumn 2014 - Autumn 2017

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INTERESTS & HOBBIES

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