# Vladyslav Mokrousov

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#### **EXPERIENCE**

## **Google Summer of Code** — Student Software Engineer

MAY 2019 - AUGUST 2019

- Built end-to-end data processing pipeline to visualize satellite weather recordings
- Designed an algorithm for georeferencing of satellite weather images using GDAL C++ library
- Designed and implemented an algorithm to merge several satellite images taking care of overlapping areas
- Developed web app with Python/JS stack to display images on a web map or on a virtual globe
- Implemented unit and integration testing for application components

## **Aerospaceresearch.net** — *Open Source Contributor*

MARCH 2019 - SEPTEMBER 2019

- Developed major improvements for audio signal decoder DirectDemod project
- Actively involved in community activities, including taking part in discussions, opening issues, pull requests, writing documentation

#### **EDUCATION**

## Kyiv Polytechnic Institute, Kyiv, Ukraine

Candidate for Bachelor of Science in Software Engineering

JUNE 2021 (expected)

- Major in Software Engineering with a strong foundation in Mathematics
- Coursework: Algorithms; Data Structures; Computer Architecture; Database Development;
  Discrete Mathematics; Linear Algebra; Mathematical Analysis; Probability Theory; Statistics;
  Web Development; Components of Software Engineering; Software Design; Computer
  Networks; OOP; Linux; Java; Compiler development; IoT; Testing; Mathematical Optimization;
- GPA 3.9/4.0

## **SIDE PROJECTS**

#### **mcc** — C compiler generating x86-64 assembly

- Developed a compiler for the subset of C language grammar
- Implemented scanner, parser, semantic checker and x86 64 code generator
- Implemented types, composites, statements, function calls, register allocation & more caballeto/mcc: C compiler from scratch

#### **datanews.io** — *News searching API*

MAY 2020 - NOW

- Developed software to regularly crawl recent news articles from 100+ news sources
- Built a REST API to provide search access to indexed news articles
- Built Redis-based rate limiting solution, landing page, authentication and payments
- Deployed to AWS with enabled auto-scaling

## **SKILLS**

•	C++	Experienced	C++11, STL, GoogleTest
•	Java	Experienced	Java Core, Spring, Hibernate, REST, building APIs
•	OOP/OOD	Experienced	OOP, OOD, SOLID
•	Linux	Experienced	Linux, bash, git
•	Web	Some experience	JS, HTML/CSS, jQuery, OSI protocols (HTTP, TCP/UDP, etc.)
•	Python	Skillful	Flask, Anaconda
•	Databases	Experienced	MySQL, MariaDB, Redis, Elasticsearch, SQL

#### **LANGUAGES**

English; French; Russian; Ukrainian