

Vladyslav Mokrousov

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EXPERIENCE

Facebook — *Incoming Software Engineering Intern*

JUNE 2020 (start date)

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 - PRESENT

- 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
- 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 primitive types, composites, statements, function calls, and register allocation
- [caballeto/mcc: C compiler from scratch](#)

Restaurant Search App — *Search engine*

- Developed a search engine aimed to match restaurants given user food queries
- Implemented a heuristic algorithm for restaurant ranking
- Implemented a multithreaded query processing server in Java

SKILLS

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|-------------|-----------------|---|
| • C++ | Experienced | C++11, STL, GoogleTest |
| • Java | Experienced | Java Core, Spring, Hibernate, REST, building APIs |
| • OOP/OOD | Experienced | OOP, OOD, SOLID |
| • Linux | Skillful | 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, SQL |

LANGUAGES

English; French; Russian; Ukrainian