Vladyslav Mokrousov

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EXPERIENCE

datanews.io — Creator, *News searching API*   MAY 2020 - PRESENT
- **Developed software to regularly extract news articles from 1000+ news sources worldwide**
- **Built an API and client library to provide easy access to found news articles**
- **Built Redis-based rate limiting solution, authentication and payments**
- **Deployed to AWS (RDS, Elasticsearch, Elasticache, Elasticbeanstalk, etc.)**
- **Marketed and attracted paying customers**
- **datanews.io**

Abine Inc. — *Software Engineer, Remote*   AUGUST 2020 - PRESENT
- **Building automation workflows for website scraping**
- **Stack: Ruby, Rails, Selenium**

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 visualize images on virtual globe**
- **Implemented unit and integration testing for application components**

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; 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; Database Development;**
- **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

SKILLS

- **C/C++** **Experienced** C, C++, STL
- **Databases** **Experienced** MySQL, MariaDB, Redis, Elasticsearch & SQL language
- **Java** **Experienced** Java Core, Spring, Hibernate, REST, building APIs
- **OOP/OOD** **Skillful** OOP, OOD, SOLID
- **Linux** **Experienced** Linux, bash, git
- **Python** **Skillful** Anaconda, Flask, aiohttp, asyncio

LANGUAGES

English; French; Russian; Ukrainian