Vladyslav Mokrousov

elminsteraumar4@gmail.com
LinkedIn: linkedin / GitHub: caballeto

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 accurate georeferencing of satellite weather images
- 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

Elox — *Dynamically typed language*

- Developed dynamically typed statement based programming language
- Implemented built-in native objects and methods, closures, classes, inheritance
- Implemented exception handling, lambda expressions, type checking operators, etc.
- **https://github.com/caballeto/Elox/blob/master/README.md**

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 server architecture in Java for fast processing of user queries

SKILLS

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

LANGUAGES

English; French; Russian; Ukrainian