

Michael Sakevych

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Education

Taras Shevchenko National University of Kyiv

COMPUTER SCIENCE AND CYBERNETICS DEPARTMENT

Bachelor of Science in Applied Mathematics

Kyiv, Ukraine

Sep. 2019 - present

Johannes Kepler University

ARTIFICIAL INTELLIGENCE DEPARTMENT

Academic Mobility Program for Ukrainian refugees

Linz, Austria

Mar. 2022 - present

Skills

Languages Python, Golang, C, C++, C#, Maple, SQL, HTML/CSS, \LaTeX

Tools PostgreSQL, Traefik, Redis, Swagger, Docker, Docker Compose, EVM, PyCharm, Jupyter Notebook, Matlab, Git, Bash

Libraries Pandas, NumPy, sklearn, Matplotlib, Horizon, Viper, Sentry, Chi, Logan, TeleBot, NetworkX, TokenD, PyGame

Experience

Software Engineer Intern @ Distributed Lab

GO, SWAGGER, POSTGRESQL, REDIS, VIPER, TRAEFIK, SENTRY, HORIZON, ETHEREUM, BLOCKCHAIN

Kyiv, Ukraine

Dec. 2022 - Apr. 2022

- Worked on TokenD project for constructing ready-to-use blockchain-oriented services deployable on different blockchains.
- Created a multi-purpose blob storage service written in Go, bootstrapped by OpenAPI, backed by PostgreSQL and Redis.
- Set up micro-service deployment containerized by Docker, orchestrated by Docker Compose and monitored by Cop and Sentry.

Projects

Monkey interpreter

GO, COMPILER DESIGN, PROGRAMMING LANGUAGES

- Created a robust lexer, recursive-descend Pratt parser, AST-walking interpreter and REPL for the Monkey programming language.
- Implemented first-class support for the higher-order functions, recursion, tail call optimization, closures, namespaces, etc.
- Extended built-in functions to work with heterogeneous lists and closed-addressing hash tables as well as strings.
- Designed a standard library with wide variety of modules covering: buffered I/O, containers, mathematical functions, logging, etc.

Programming Assignment Bot

PYTHON, TELEGRAM API, ALGORITHMS, PLAGIARISM DETECTION

- Created chat bot that serves as a bridge between teachers and students, allowing teachers to set up a programming assignment.
- Students can send their solutions and check them against a teacher-defined test suit (including a check for plagiarism).
- Implemented state-of-the-art plagiarism detection algorithm: "MOSS, A System for Detecting Software Plagiarism. Aiken, Alex. (2002)."
- Stateless implementation allows for horizontal scaling and provides failure tolerance guarantees.
- Added support for solutions targeting many different languages/compilers/toolchains.

Extracurricular Activity

STEP IT Academy

LECTURER, VOLUNTEER

Seattle, WA

Aug. 2020 - Jun. 2021

- Lectured 2 semester-long Computer Science classes for senior high-school kids focusing on Algorithms and Data Structures in C++.
- Taught graph algorithms, computational complexity, multithreading, x86 assembly, encoding, compression, BMP and AVI formats.

Austrian-Ukrainian Student Support Group

ORGANIZER

Linz, Austria

Mar. 2022 - present

- Helped dislocated Ukrainian students to continue their studies at the Johannes Kepler University in Linz.
- Curated a list of resources/guides on how to stay in the academia at the war time. It became a [news website](#).