Michael **Sakevych**

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Education

Taras Shevchenko National University of Kyiv	*Kyiv, Ukraine*
COMPUTER SCIENCE AND CYBERNETICS DEPARTMENT	*Sep. 2019 - present*

Bachelor of Science in Applied Mathematics

Skills

Languages	Python, Golang, C/C++, C#, Maple, HTML/CSS
Tools	Git, Bash, Docker, LaTeX, PyCharm, Jupyter Notebook, Matlab, Visual Studio Code
Libraries	Pandas, NumPy, Matplotlib, Tkinter, PyGame, TeleBot, NetworkX

Projects

Programming Assignment Bot

PYTHON, TELEGRAM API, ALGORITHMS

- Chat bot serves as a bridge between teachers and students, allowing teachers to set up a programming assignment via interactions w/ bot.
- 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 guarantees crash-resistance and failure tolerance in case of power outage.
- Support for compilation/testing of solutions written in many programming languages.

PRNG library

C++, STATISTICS, PROBABILITY THEORY

- Implemented over 10 different algorithms for random number generation.
- Ran Kolmogorov-Smirnov test to spot check for the correctness of distributions.
- Based on the corresponding chapter in Knuth's "Art of Computer Programming" book.

Distributed Lab Intern — *Kyiv, Ukraine*

GOLANG, WEB 3.0, BLOCKCHAIN — *Dec.2022 - present*

- Worked with TokenD project: main API for constructing ready-for-use blockchain-oriented services.
- Learned writing JSON:API documentation and implementing writen.
- Worked with many of project services using Docker.

Extracurricular Activity

Chytalka (Coworking space) — *Kyiv, Ukraine*

ADMIN — *Dec. 2019 - present*

- Organized lecture from company called Jooble.
- Helped with booksharing club.
- Started a board games league.

Faculty Student Association — *Kyiv, Ukraine*

MEMBER — *May 2020 - present*

- Curated a group of freshman students.
- Held Trivia Game Night for the students.
- Developed a Telegram chat bot for the Trivia game.