Mateusz Kasprzak

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About Me

I am a Computer Science student at the University of Warsaw, currently completed my second Year. I am eager to gain more professional experience and apply my knowledge of programming, algorithms, and systems to real-world problems. I enjoy both practical software development and the theoretical side of computer science, and I am a quick and adaptive learner.

Education

University of Warsaw 2023 – Present
Completed second year – Computer Science

Experience

Backend Software Engineering Intern — Kalepa Jul 2025 – Sep 2025

- Three month internship in insurance-tech startup.
- Worked on automation and data-processing tasks involving unstructured information.
- Contributed to developing internal tools supporting large-scale information handling.

Projects

Boolean Evaluator (Concurrent Programming)

- Implemented a Boolean-expression parser and concurrent evaluator supporting batch evaluation and unit tests.
- Focus on thread-safety and performance.

Concurrent Optimization (Concurrent Programming)

- Implemented and tuned concurrent algorithms/data-structures to reduce contention, improve parallel throughput and scalability.
- Performed profiling-based optimizations and benchmarked scalability improvements.

NAND Evaluator / Logic Simulator (Computer Architecture)

- Built a NAND-based logic evaluator / simulator to model and verify combinational circuits and truth tables.
- Demonstrates low-level programming and digital-logic understanding.

More projects and code: github.com/matikasp/University_Projects

Achievements

- Participated in Hackarena 2.0 Hackathon
- Finalist of the STEM competition organized by the Warsaw University of Technology during high school

Skills

- **Programming Languages:** C/C++, Java, Python, NASM x86 Assembly
- **Software & Tools:** Git, Linux, AWS, Flask, OpenAI API
- **Systems:** Operating systems, computer architecture, computer networks, concurrent programming
- **Theoretical Computer Science:** Algorithms and data structures, automata theory, formal languages, computational complexity
- **Machine Learning:** Basic understanding of ML concepts and libraries (e.g., scikit-learn, NumPy, pandas)

Languages

- **Polish:** Native
- **English:** Fluent, B2 level (self-assessed)