

ADAM DERYŁO

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EDUCATION

Warsaw University

Oct. 2020 – Ongoing

Bachelor of Science in Computer Science,

Warsaw, Poland

- Top rated CS undergraduate program in Poland according to QS ranking.
- 1st-year modules: Functional Programming, OOP, C, Introduction to AI, Linear Algebra.
- 2nd-year modules: Adv. Algorithms, Databases, Computer networks, Web Apps, Statistics, NLP.
- 3rd-year modules: Distributed systems, Concurrency theory, Security of computer systems.

EXPERIENCE

Goldman Sachs

Jun. 2022 - Aug. 2022

Summer Analyst | Redis, Java, Procmon, Golang

Stockholm, Sweden

- Global reconciliations team, daily processing of 80+ mln trade & position data entries.
- Collaborated on optimizing caching performance and reliability of data loading processes.
- Worked on extending database performance limits with intelligent cache priming based on Change Data Capture.
- Developed Redis cache monitoring tool suite to speed up emergency debug and development cycle.

ReSpo.Vision

Jul. 2021 - May. 2022

Software Engineer Intern | Python, Postgre, Git, SQL, Pytorch

Warsaw, Poland

- 40+ sprints under the Scrum development framework in a rapidly growing team.
- Worked on a back-end implementation of a betting hints generator that withstood 100k API calls daily.
- Created a deep learning NLP module using cutting-edge architectures such as BERT.
- NLP module tackled the problem of context-dependent noun declination in Slavic languages.

Bain & Company

Mar. 2021 - Apr. 2021

Spring Intern | Nielsen, Ipsos, Bain's overlay for MS Office

Warsaw, Poland

- Supported a consulting team in the area of wood market data analysis.
- Worked on a team-based business case study under the supervision of a dedicated mentor.

PROJECTS

Bachelor thesis with NVIDIA | C++, CUDA, Python

Oct. 2022 - Present

- GPU acceleration of image decompression in machine learning workflows.
- Project aimed at helping NASA data scientists that use FITS data format compressed with RICE algorithm.
- Collaborating with the NVIDIA DALI team on incorporating solution into their data loading library.

N-dimensional labyrinth solver | C, Valgrind, Cmake, Git

Jun. 2022

- Developed a high-performance traverser for multi-dimensional mazes/large graphs.
- Utilized most memory efficient solution by incorporating 2-bit BFS algorithm.
- Implemented arbitrary large integer type to facilitate enormous labyrinths and showcase memory efficiency.

Concurrent Unix directory | C, Pthreads, Valgrind/Helgrind, Cmake, Git

Jan. 2022

- Implemented UNIX file directory system, which allowed for concurrent creation, deletion and movement of files.
- Utilized tailored-made readers-writers lock with Latest Common Ancestor writer locking.

EXTRACURRICULAR

1st Place, Goldman Sachs EMEA Engineering Hackaton 2022

2nd Place, PSDC 2020 debating championship, preliminary stage to World Schools Debating Championship.

Laurate, 8/1000+ in the 31st National Philosophy Olympiad

SKILLS

Programming Languages: Python, Java, C/C++, JavaScript, R, Ocaml, Go, SQL

Technologies: Git, Ubuntu/Debian, Jira, Redis, Docker, Pydantic, React

Natural languages: English (C2), Polish (Native), Spanish (B1)