

ADAM DERYŁO

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EDUCATION

Technical University of Munich

Masters of Informatics

- Best technical university in Germany according to the QS ranking.

Oct. 2024 – Ongoing

Munich, Germany

Warsaw University

Double degree: BSc in Computer Science & BSc in Cognitive Science

- Top-rated CS undergraduate program in Poland according to the QS ranking.
- Thesis written at NVIDIA and Nencki Institute of Experimental Biology.

Oct. 2020 – Jul. 2024

Warsaw, Poland

EXPERIENCE

Amazon

Software Engineering Intern — AWS CDK, Typescript, React, Python

- NintAi, applied science team, responsible for providing ML models for visual navigation.
- Developed and deployed a UI for a ML inference platform, which facilitates image search at Amazon.
- Implemented UI infrastructure using AWS CodePipeline, CodeBuild, API Gateway, Lambda, SIGV4 Auth, etc.
- Established end-to-end testing with NightwatchJS and Selenium Grid, integrating it into the CI/CD pipeline.

Jun. 2024 - Sep. 2024

Madrid, Spain

Taiwan Semiconductor Manufacturing Company

Software Engineering Intern — Pytorch, Huggingface, Scikit-learn, Python

- AI Application and Platform Development Team responsible for the automation of fab processes.
- Developed custom BLIP2 based model for photomask defect classification and dataset bootstrapping.
- Ranked in the top 8 out of 80+ Interns in the final competition.

Jul. 2023 - Sep. 2023

Hsinchu, Taiwan

Goldman Sachs

Summer Analyst | Redis, Java, Procmon, Golang

- Global reconciliations team, daily processing of 80+ mln trade & position data entries.
- 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.

Jun. 2022 - Aug. 2022

Stockholm, Sweden

PROJECTS

Bachelor thesis at NVIDIA | C++, CUDA, CMake, Python

- Worked with NVIDIA DALI team on accelerating image decompression in ML astronomy workflows.
- Contributed module to the open-source DALI library, improving the performance of the FITS decoder.
- Devised a testing & profiling pipeline to allow for benchmarking various CUDA kernel optimizations.
- Showcased the result by rewriting NASA Coronal Hole Semantic Segmentation pipeline and achieving 70% speedup.

Oct. 2022 - Jun. 2023

ELF Binary Reconstruction Tool | C++, Assembly, ELF Format, Reverse Engineering

- Developed a program to reconstruct relocation tables and symbols from stripped ELF executables.
- Implemented heuristic algorithms for function boundary detection and instruction classification.
- Designed solution for i386 architecture binaries compiled for Intel Quark microcontrollers.
- Such reconstruction allows for modifying parts of compiled code without hassles of full decompilation.

Feb. 2024 - Apr. 2024

Deep Neural Networks | Python, PyTorch, TensorBoard

- Reimplemented four groundbreaking machine learning papers from scratch, including: "Attention is All You Need" and "Bigger, Better, Faster: Human-level Atari with Human-level Efficiency".
- Gained hands-on experience with various deep learning applications, including Computer Vision, Natural Language Processing, and Reinforcement Learning.
- Achieved the highest mark, ranking in the top 5% of course participants.

Nov. 2023 - Jan. 2024

EXTRACURRICULAR

- Rock climbing varsity team.
- 1st place, Goldman Sachs EMEA 2022 Hackathon.
- Bain & Company Champions Class 2023.
- Laureate of the 31st National Philosophy Olympiad.

SKILLS

Programming Languages: C/C++, Python, Typescript, Haskell, Go, Bash, Lua, System Verilog

Technologies: Nvim, Qemu, Git, Linux, Tmux, Gdb, CMake, CDK, React

Natural languages: English (C2), Polish (Native), Spanish (B1), German (A1)