

ADAM DERYŁO

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EDUCATION

Warsaw University

Oct. 2020 – Ongoing

Double degree: BSc in Computer Science & BSc in Philosophy

Warsaw, Poland

- Top rated CS undergraduate program in Poland according to QS ranking.
- Rector's scholarship for academic achievements.

EXPERIENCE

Taiwan Semiconductor Manufacturing Company

Jul. 2023 - Sep. 2023

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

Hsinchu, Taiwan

- AAPD team responsible for automation of fab processes.
- Collaborated on developing a custom BLIP2 based model for photomask defect detection.
- Researched application of Stable Diffusion models for bootstrapping data for DL defect classification models.
- Top-8 internship performance among cohort of 80+ interns.

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 for context-dependent noun declination.

PROJECTS

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

Oct. 2022 - Jun. 2023

- GPU acceleration of image decompression in machine learning workflows.
- Constructing a CUDA kernel to enhance the decoding of data encoded using the RICE algorithm.
- Project requested by NASA data scientists that use FITS data format compressed with RICE algorithm.
- Gained hands-on experience with CUDA virtual memory management, under the guidance of NVIDIA employees.

C interpreter | Haskell, GHC, Cabal, BNFC

Apr. - Jun 2023

- Created an interpreter for a C-like language, called Latte.
- Implemented support for scoping, functions, multidimensional arrays, classes and many more.
- Utilized monad transformers to create various features such as garbage collection mechanism for the language.

Minix OS | C, Qemu, Bash, rsync

Apr. - Jun. 2023

- Developed various custom features for the Minix OS, including modifying the kernel.
- Implemented theoretically optimal scheduler, improving the performance of the system.
- Devised an add-on for the virtual file system which introduced file exclusivity mechanism.

Distributed alerting system | Grpc, Google Cloud Platform, Python

Nov. 2022 - Jan. 2023

- Developed scalable microservice system for monitoring services and running complex alerting routines.
- Utilized GRPC, PubSub queues, Cloud SQL and other tools to satisfy SLO requirements.
- Project supervised by Google employees.

EXTRACURRICULAR

2nd Place, BEST Hacking league

Member, Bain & Company Champions Class 2023

1st Place, Goldman Sachs EMEA 2022 Hackathon

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

SKILLS

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

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

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