Maksymilian Deryło

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Education

BCs Computer Science & Engineering - Cum Laude (GPA: 8.3/10) Sep. 2023 – Expected: July 2026
Eindhoven University of Technology *Eindhoven, Netherlands*

Experience

Goldman Sachs June. 2025 – September. 2025
Summer Tech Analyst, Fintech *Warsaw, Poland*

- Analyzed, proposed and implemented a solution for a critical visibility gap of log data preventing system deprecation.
- Designed and implemented Java service with parallel and asynchronous execution using Vertx.
- Drove adoption and scaling of developed end-to-end advanced metric interpretation solution across teams.

EuFlex Technificient Feb. 2025 – Apr. 2025
Student Assistant, Part-time - Computer Architecture, Assembly *Eindhoven, Netherlands*

- Assessed student work in Logic, Register Transfer Language(RTL), and Assembly.
- Guided and mentored students in problem-solving, enhancing their analytical thinking and debugging skills.

Taiwan Semiconductor Manufacturing Company July 2024 – Sep. 2024
DevOps Engineer, Internship - Kotlin, Kubernetes, Azure DevOps *Hsinchu, Taiwan*

- Developed custom Helm Charts for Kubernetes microservice deployment with Azure DevOps and Grafana setup.
- VM CronTab to Kubernetes Cronjob migration with image optimization reducing pod lifetime to around 5 seconds.
- Created and presented SOP of the migration for product owners to follow.
- Finalist of intern competition presenting on IaC (Terraform + Ansible) tools integration and standard task automation.
- Designed, tested and deployed Mail Service CRUD APi in Kotlin.

Projects

Autoencoders Feature Extraction Research | *Machine Learning, Research* Sep. 2025 - Current

- Conducting research in collaboration with Assistant Professor at TU Eindhoven.
- Investigating feature extraction and explainability from visual modality using NMF and sparse autoencoders.
- Experimenting with parts-based representation of NMF on olivetti face dataset.

Linear Optimization for Traffic Network | *Modeling, Optimization, AIMMS* Sept. 2024 - Oct. 2024

- Modeled a linear programming problem to minimize travel time on a network with speed limits using AIMMS.
- Developed a mixed integer programming model with budget constraints for speed limit violations.
- Automated parametric analysis of travel time with varying budget values using custom AIMMS procedures.
- Tested solvers like CPLEX and XA16, analyzing solution times and branch-and-bound trees.

Embedded RPi conveyor belt | *Python, React, RPi, SCRUM Master* Mar. 2024 - July 2024

- Scrum Master of 6-person team delivering full-stack conveyor belt system simulation.
- Implemented motor control using Raspberry Pi GPIO pins for an Arduino-based conveyor belt.
- Enabled real-time product tracking via Raspberry Pi QR scanner integrated into Flask backend.
- Built MySQL-authenticated user management, optimizing Raspberry Pi client-server communication.

Quantum Poker Game | *Java, Redfx-Quantum* Oct. 2023 - Nov. 2023

- Project of creating a fair poker style in Java with Swing.
- Delving and implementing quantum computing - gates, qubits, computation with Strange API.
- Professional collaboration on a programming small team project with Git.

Skills

Programming Languages: C/C++, .NET, Java, Kotlin, Python, Shell Scripting, SQL, JavaScript
Deployment & Cloud: Kubernetes, Azure, Docker, CICD
Libraries: NumPy, Pytorch **Operating systems**: UNIX, Windows, Linux **Communication/collaboration**: Git, Project Management, SCRUM(Master experience)
Natural Languages: Polish(Native), English(C1 IELTS certification)