Edoardo Mangia

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LinkedIn
GitHub

Education

University of Padua — Padua, Italy *(Sept. 2020 - Jan. 2024)*
B.Sc. Industrial Engineering (GPA 3.6/4.0)

Relevant Coursework: Computer Science (4.0/4.0) - Operations Research (4.0/4.0) - Electrotechnics (4.0/4.0)

Chalmers University of Technology — Gothenburg, Sweden *(Sept. 2024 - Sept. 2026)*
M.Sc. Engineering Mathematics (GPA 4.0/4.0)

Relevant Coursework: High-Performance Computing (4.0/4.0) - Bayesian Machine Learning (4.0/4.0) - Compiler Construction (?/4.0)

Experience

ASML — Veldhoven, Netherlands *(Jan. 2025 - May. 2025)*
Machine Learning Engineer Intern

The internship focuses on addressing particle contamination on the reticle in EUV scanners, this involves modeling the effects of the EUV-plasma, electrostatics around the reticle, and chemical processes in the scanner. In general, the tasks are relevant to the machine learning, scientific computing and data engineering fields.

As for the stack, on the day-to-day I'm using Python, Julia and MATLAB for machine learning and computational modelling. To interface with the company infrastructure we're using Databricks, Microsoft Azure and their APIs.

This commitment will keep me occupied during the spring, with flexibility in the scheduled ending date.

Skills

Programming Languages (Python, C, C++, Julia, MATLAB, SQL, R, Rust)

Machine Learning (TensorFlow, PyTorch, NumPy, scikit-learn, Colab, Jupyter)

Parallel Computing (CUDA, OpenMP, OpenCL, MPI)

Linux and Bash Scripting (vim, gdb, hyperfine)

Cloud Computing (AWS, Azure, Docker, Kubernetes)

ETL and Data Integration (Databricks, Hadoop, Spark, AWS Glue)

Projects (GitHub)

Replicated and reimplemented research papers of personal interest.

University projects in Parallel Computing, Mathematical Modelling and Optimization, Bayesian Machine Learning and Scientific Visualization.

Languages

English (IELTS C1 - TRF: 2420000034MANE1IHA)

French, Spanish and Russian (basic conversational level)

Swedish (...work in progress)