

Sebastiano
Perni

MSC STUDENT · CLOUD & NETWORKING
INFRASTRUCTURE & HPC

CONTACT

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📍 Helsinki, Finland

LANGUAGES

Italian Native
English CAE C1 – 199/200
Finnish Beginner (studying)

SKILLS

Cloud & Infrastructure
Google Cloud · Terraform · Docker · Linux
Distributed Systems & Data
Kafka · Spark · MPI
Programming
Go · Python · C/C++ · Java · PHP
Parallel Computing
OpenMP · CUDA
Development
Git · PHP Symfony · Robot Framework

SCHOLARSHIPS & AWARDS

Percorsi di Eccellenza
Excellence Programme
PoliMi & Fondazione Next Generation
2022 – 2025
Full Tuition Fee Waiver
EIT Digital Master School
2025
Best Freshmen Award
Politecnico di Milano
2023

EDUCATION

EIT Digital Master School — Double MSc in Cloud and Networking Infrastructures and HPC 2025 – present
Politecnico di Milano · Aalto University
MSc in High Performance Computing (PoliMi) · MSc in ICT Innovation (Aalto) · Expected graduation: August 2027
Bachelor's in Engineering of Computing Systems 2022 – 2025
Politecnico di Milano
Final grade: 103 / 110
High School Diploma in Applied Sciences 2017 – 2022
IIS Torriani, Cremona
Final grade: 100 / 100

WORK EXPERIENCE

Junior Software Developer Jul – Oct 2024
Keropetrol S.p.A., Cremona · Internship
Built a continuous diagnostics system for all retail-location devices using PHP Symfony.
Junior Software Developer Jul – Oct 2023
Keropetrol S.p.A., Cremona · Internship
Developed testing automation and data-collection pipelines using Robot Framework.
Administrative Collaborator 2024 – 2026
Politecnico di Milano, Cremona Campus · Paid collaboration
Supported administrative services and organised orientation events for prospective students.

ACADEMIC PROJECTS

L7 Load Balancing Algorithms 2026
Implemented in Go and benchmarked Layer-7 load balancing strategies on the CloudLab network. (*Network Computing*)
Digital Twin Simulation 2026
Modelled and simulated a digital twin using Contiki-NG, Akka and Node-RED. (*Networked Software for Distributed Systems*)
Distributed Smart Power Grid 2025
Simulated a distributed smart grid with fault tolerance using Kafka, Spark and MPI. (*Networked Software for Distributed Systems*)
Parallel K-Means Clustering 2025
Implemented K-Means in C++, then progressively parallelised with OpenMP, MPI and CUDA. (*Advanced Methods for Scientific Computing*)
Digital Circuit Design 2025
Designed, implemented and simulated a digital circuit from specification using AMD Vivado. (*Logic Networks*)
Online Multiplayer Turn-Based Game 2025
Developed a GUI-based game with online multiplayer from scratch in Java. (*Software Engineering*)
Business Management CLI 2024
Built a full-featured command-line business management application in C. (*Algorithms and Data Structures*)