

Emir Esenov

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EDUCATION

Chalmers University of Technology

PhD in Electrical Engineering

Gothenburg, Sweden

Sep 2024 – Present

Uppsala University

MSc in Data Science

Uppsala, Sweden

Sep 2022 – May 2024

Relevant coursework: Advanced Probabilistic Machine Learning, Applied Linear Algebra, Artificial Intelligence, Computer-Intensive Statistics and Data Mining, Data Engineering, Linear Algebra II, Multivariable Calculus, Reinforcement Learning, Statistical Machine Learning, Theoretical Foundations of Data Science

Luleå University of Technology

BSc in Computer Engineering

Luleå, Sweden

Aug 2019 – Jun 2022

Engineering Preparatory Year (Tekniskt basår)

Aug 2018 – Jun 2019

Relevant coursework: Algorithms and Data Structures, Calculus I & II, Computer Communications, Computer and Network Security, Database Technology, Declarative Programming, Differential Equations and Transform Theory, Digital Design, Discrete Mathematics, Introductory Programming, Mechanics, Object-Oriented Programming, Microcomputer Engineering, Probability Theory and Statistics, Real-Time Systems

SKILLS

Programming: C, C++, Haskell, Java, JavaScript, MATLAB, MIPS Assembly, Prolog, Python, R

Technologies: Apache Hadoop & Spark, Docker, MongoDB, MySQL, PyTorch, scikit-learn, TensorFlow

EXPERIENCE

Department of Materials Science, Uppsala University

Software Developer

Uppsala, Sweden

Jun 2024, Contract

- Small project in materials science data management with NOMAD (nomad-lab.eu).
- Implemented automated uploading and publishing of materials science data, specifically magnetron sputtering experiment data, in the self-driving lab that I helped develop during my master's thesis project.

CA&C Press AB

IT Worker

Luleå, Sweden

Aug 2018 – Jun 2024, Part-time

- Work tasks included installing and maintaining word processing software and fixing miscellaneous computer issues, both hardware- and software-related.
- Deputy board member (Swedish: styrelsesuppleant) of the company.

Luleå University of Technology

Teaching Assistant

Luleå, Sweden

Jan 2021 – Jun 2021

- Teaching assistant in courses *D0009E: Introduction to Programming* and *D0028E: Programming and Digitalization*.
- Work tasks included helping students with programming and grading lab assignments.

VOLUNTEERING

Intize

Mentor

Gothenburg, Sweden

Oct 2024, – Present

- I organize weekly problem-solving sessions in mathematics for a group of gifted children.

PUBLICATIONS

- [1] **Emir Esenov**, *Delineating process boundaries for magnetron sputtering using active learning*, Digitala Vetenskapliga Arkivet (DiVA), Master's thesis, 2024.
- [2] T. Grutschus, O. Karrar, **Emir Esenov**, and E. Vats, *Cutup and detect: Human fall detection on cutup untrimmed videos using a large foundational video understanding model*, 2024. arXiv: 2401.16280.