Emir Esenov

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EDUCATION

Chalmers University of Technology   Gothenburg, Sweden
PhD in Electrical Engineering   *Sep 2024 – Present*

Uppsala University   Uppsala, Sweden
MSc in Data Science   *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   Luleå, Sweden
BSc in Computer Engineering   *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   Uppsala, Sweden
Software Developer   *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   Luleå, Sweden
IT Worker   *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   Luleå, Sweden
Teaching Assistant   *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.

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.