

Attila NÉMET



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Summary

With over two decades of broad experience in ICT (Information and Communications Technology) at Ericsson and proficiency in Python scripting for network configurations, I have consistently kept pace with advancements in AI (Artificial Intelligence) and ML (Machine Learning) through personal projects and extensive online courses.

Expanding my expertise, I recently completed an Interdisciplinary Space Master's degree at the University of Luxembourg, where I not only explored the vast wonders of the universe but also discovered the transformative potential of Large Language Models (LLMs). Currently, I am further deepening my programming skills at the 42 School in Luxembourg.

Education

- **Present:** 42 School, Luxembourg
Project-based learning, foundation in C and C++, with a goal of specializing in AI/LLM
- **September 2024:** University of Luxembourg
Master in Space Technologies and Business

Relevant Skills and Experiences

- **Software Testing using LLMs:** Studied the possibility to use LLMs for testing of space software and wrote my [master thesis](#) in this subject.
- **Scientific Space Project:** Generation of Training Images for Lens Flare Removal – developing the LFW ([Lens Flare Wizard](#)), a Python and Blender-based toolkit for augmenting training datasets with realistic lens flare effects to train computer vision models against lens flare artifacts.
- **Algorithm Development & Programming:** Proficiency in Python. Prepared RAN (Radio Access Network) configuration scripts (3G, 4G & 5G) using Python scripts. Developed and maintained algorithms for telecommunication operations and RAN modernization projects.
- **Artificial Intelligence & Machine Learning:** Acquainted with AI and ML concepts. Developed a concept for mass configuration of telecom equipment using machine learning and artificial intelligence.
- **Database:** Managed various network databases; hands-on experience in database manipulation and cloud-based tools.
- **Teamwork & Communication:** Worked in 20+ countries ([resume-references.pdf](#)). Collaborated with diverse teams across different projects. Provided support and effectively communicated with POs (Product Owners).

Languages

English:	C2 – Fluent
Romanian:	C2 – Fluent
French:	B1 – Intermediate
German:	B1 – Intermediate
Hungarian:	L1 – Mother tongue

Technical Strengths

Computer Languages:	C, Perl, Latex, Python, AI/ML, LLM
Protocols & APIs:	XML, JSON, numpy, pandas, matplotlib
Tools:	Visual Studio Code, Jupyter Notebook, Git

Selected Work Experiences with Ericsson

- **Apr 2015 – Dec 2021, Budapest:** Business Analyst & Testing
 - Worked on mass configuration of telecom equipment using AI and ML.
 - Assisted in designing and performing load tests with configuration files.
- **May 2013 – Jun 2014, Dublin:** 4G Rollout, RAN modernization Technical Lead
 - Developed and maintained scripts/procedures for the Mosaic LTE Rollout program.
- **Feb 2011 – Dec 2012, Düsseldorf:** Integration & Configuration & Procedure Development
 - Developed a procedure and executed a live RNC (Radio Network Controller) modernization swap. The procedure development has been done “in theory” — without access to test nodes. Execution in the live network done without major incidents.

Relevant AI/ML Online Courses

- **LLM Engineering:**
 - Master AI, Large Language Models & Agents
- **Andrej Karpathy’s Tutorials:**
 - GPT Tokenizer
 - Reproducing GPT-2
- **Udacity:**
 - Self-Driving Car Nanodegree (T1)
 - Machine Learning Engineer Nanodegree
 - Deep Learning Foundations Nanodegree
- **Coursera:**
 - Machine Learning (Stanford University)
 - Using Databases with Python (University of Michigan)
 - State-Estimation and Localization for Self-Driving Cars (University of Toronto)

References

Jorge Querol	SatCom (Satellite Communications) professor
Djamila Aouada	CVIA (Computer Vision and Image Analysis) professor
Fabrizio Pastore	Space Informatics professor, Master Thesis supervisor
Miguel Olivares-Mendez	Space Robotics professor, Scientific Project supervisor
Christian Fisch	Business Economics and Entrepreneurship professor