Alan Kowalczyk | MSc, MBCS

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🌐 alankowalczyk.github.io/Portfolio/ • in kowalczyk-alan • ⬤ AlanKowalczyk

About Me

A motivated researcher specializing in Artificial Intelligence, Machine Learning, and Financial Technology with strong programming expertise and a passion for algorithmic trading.

Education

UCSI University — **Kuala Lumpur, Malaysia**
PhD in Computer Science — *EXPECTED 05.2025 – 2028*

Caltech CTME — **Online**
Postgraduate Program in AI & ML — *08.2024 – Present*

Abertay University — **Dundee, UK**
MSc in Computer Science with AI (Distinction, CGPA 3.88) — *10.2023 – 11.2024*

Adam Mickiewicz University — **Poznań, Poland**
Master's Degree in Physics (Astronomy) — *10.2005 – 06.2011*

University of La Laguna — **La Laguna, Spain**
Erasmus Exchange Program (Astrophysics) — *09.2009 – 01.2010*

XXI Secondary School — **Poznań, Poland**
Secondary Education (Math, Informatics, Physics) — *09.2000 – 06.2004*

Certifications

Harvardx — **Online**
Machine Learning and AI with Python — *02.2025 – Present*

HKUx — **Online**
FinTech Ethics and Risks — *01.2025 – Present*

HKUx — **Online**
Introduction to FinTech — *11.2024 – 12.2024*

HarvardX — **Online**
Introduction to Data Science with Python — *10.2024 – 11.2024*

StanfordOnline — **Online**
Databases: Relational Databases and SQL — *10.2024*

MITx — **Online**
Introduction to Computational Thinking and Data Science — *10.2023 – 12.2023*

MITx — **Online**
Introduction to Computer Science and Programming using Python — *05.2023 – 08.2023*

Professional Memberships

Member of the British Computer Society (MBCS)

Experience

European Centre of Damages EuCo **Poland**
Representative, Compensation sector *06.2012 – 04.2013*

OVB Allfinanz **Poznań, Poland**
Branch Manager, Financial advisory sector *04.2012 – 04.2013*

Provident Polska **Poland**
Representative, Financial services sector *01.2012 – 04.2013*

OVB Allfinanz **Poznań, Poland**
Representative, Financial advisory sector *09.2011 – 03.2012*

Languages

Polish: Native
English: C1

Competences

Programming: C, Python, JavaScript

Financial Machine Learning, Algorithmic Trading, NLP for Finance, Financial Data Processing

Libraries: NumPy, Pandas, SciPy, Scikit-learn, Matplotlib, PyTorch, TensorFlow

HTML5, CSS, JavaScript, PHP, MySQL, PL/SQL

Operating Systems: Windows, Linux (Debian/Ubuntu)

Software: OpenOffice, LaTeX, GIMP

Soft Skills: Adaptability, Analytical Thinking

Interests

Artificial Intelligence, Machine Learning, Financial Technology, Algorithmic Trading

Astrophysics, Astro-Photography, Programming, Photography

Running: Completed marathons on all 7 continents and finished a 100km ultramarathon