THOMAS HOLLIS

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github.com/PsiPhiTheta

EDUCATION

University of Toronto (2018-2020)   Toronto, Canada
MSc in Applied Computing (Machine Learning) - <u>GPA</u>: 4.0/4.0
Select courses: Machine Learning & Data Mining, Neural Networks & Deep Learning, Blockchain Eng.
Master Thesis: Machine Learning Forecasting for Financial Fundamentals in Long-Term Value Investing

The University of Manchester (2015-2018)   Manchester, UK
BEng (Hons) in Electrical & Electronic Engineering - <u>GPA</u>: 84.3% (1st Class, top 5% of the class)
Select courses: Digital Systems Design (96%), Mathematics (93%), DMC (92%), C programming (88%)
Bachelor Thesis: Deep Learning Algorithms Applied to Blockchain-Based Financial Time Series (92%)

WORK EXPERIENCE

Bloomberg – Quality Product Manager (Oct 2023 – Present)   London, UK
Setting strategy around data quality for the Company Financials dataset (MODL product, ~300 employees)

Bloomberg – Team Leader (Mar 2022 – Sep 2023)
Earnings Estimates dataset (EEO, MODL products). Managing a team of eight analysts, Agile planning…

Bloomberg – Data Analyst (Feb 2020 – Feb 2022)
Equity Corporate Actions dataset (CACS product). Notable projects: dividend extraction automation via NLP (improving publish speed to 50% under 5min), SEDOL entity mapping automation (improving coverage to 99%), restructuring data models, onboarding new stock exchanges, publishing news stories…
Technologies used: Bloomberg APIs, BQNT, BQL, Enterprise Data, Oracle, Jira/JSD, LSE Datasync

Valsys – Machine Learning Engineer (May 2019 – Dec 2019)   London, UK
Machine learning research in a fintech startup. Research focussed on machine learning forecasting for company financial fundamentals in long-term value investing (quantamental time series modelling).

Airbus, MBDA – Electronic Engineer Intern (Jun-Aug 2016, Jun-Aug 2017)   Stevenage, UK
Lead the summer placement team in missile electronics. Designed a comprehensive solution to power distribution architecture issues of defence systems. Details bound by UK's Official Secrets Act (1989).

SELECT PROJECTS

LSTM Attention – Investigation into adding Attention to LSTMs in time series (developed, in Python/TensorFlow)
RainCrypto – Multi-cryptocurrency ticker system for the Windows desktop environments (developed, in Rainmeter)
ESP-18 – Line following racing bot using autonomous PID control and proximity sensing (built & developed, in C)
uClk – Clock timer embedded system with automated luminosity and temperature sensitive alarm (developed, in C)

LANGUAGES & SOFTWARE

English (Native - ILR level 5), **French** (Native - ILR level 5), **Spanish** (Professional - ILR level 3), **Corsican** (ILR level 1)
Programming   Python (Proficient); C/C++, R, SQL, MATLAB, UNIX/Bash, JS, Assembly (Conversational)
Tools & Libraries   Git, NumPy, Keras/TF, PyTorch, Scikit-learn, React, Vitess, ChatGPT Prompt Engineering

AWARDS & CERTIFICATIONS

Pelmorex Scholarship in Applied Computing	**Mitacs Accelerate Fellowship (C$30,000 grant)**
Addictive Mobility, University of Toronto (2018)	Canadian Government, University of Toronto (2018)
Bachelor Thesis Project Prize (1st of 250 classmates)	**BCG Mentorship Competition Winner (top 5%)**
The University of Manchester (2018)	Boston Consulting Group (2017)
NI Engineering Leadership Scholarship	**Hackathons & Coding Competitions**
National Instruments (2016)	Kaggle (various), Google (2016-2019), MLH (2017)
UK National Security Clearance (SC)	**Accredited Engineering Technician (EngTech)**
Security Vetting (Defence Business Services/MoD)	Institution of Engineering and Technology (IET, 2017)

Interests: Optimisation, Blockchain, Consciousness, Triathlon, Competitive Swimming, Baroque Piano (Grade 7)