THOMAS HOLLIS

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github.com/PsiPhiTheta

EDUCATION

University of Toronto (2018-2020) Toronto, Canada
MSc in Applied Computing (Machine Learning) - GPA: 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 - GPA: 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 (Mar 2022 – Sep 2023) 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, Enterprise Data, BQNT, BQL, Oracle, JSDM/Jira, 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 the UK's Official Secrets Act (1989).

SELECT PROJECTS

LSTM Attention – Investigation into adding Attention to LSTMs in time series (developed, written in Python/TensorFlow)
RainCrypto – Multi-cryptocurrency ticker system for the Windows desktop environments (developed, written in Rainmeter)
ESP-18 – Line following racing bot using autonomous PID control and proximity sensing (built & developed, written in C)
uClk – Clock timer embedded system with automated luminosity and temperature sensitive alarm (developed, written 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
Addictive Mobility, University of Toronto (2018)
Bachelor Thesis Project Prize (1st of 250 classmates)
The University of Manchester (2018)
NI Engineering Leadership Scholarship
National Instruments (2016)
UK National Security Clearance (SC)
Security Vetting (Defence Business Services/MoD)
Mitacs Accelerate Fellowship (C$30,000 grant)
Canadian Government, University of Toronto (2018)
BCG Mentorship Competition Winner (top 5%)
Boston Consulting Group (2017)
Hackathons & Coding Competitions
Kaggle (various), Google (2016-2019), MLH (2017)
Accredited Engineering Technician (EngTech)
Institution of Engineering and Technology (IET, 2017)

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