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MEDZINSKII

EDUCATION

- 2013 – 2017** ● **BSc (Hons) Computer Science**
University of Bath *1st Class*
Placement: *J.P. Morgan*
🏆 **Prize Winner:** Best BSc dissertation
- 2011 – 2013** ● **A-Levels (Sixth Form) – A, A, A, C**
Queen Elizabeth's School for Boys, Barnet
Mathematics, Computing, Fine Art & Physics
- 2006 – 2011** ● **GCSEs – 7 A*, 3 A, 2 B**
Queen Elizabeth's School for Boys, Barnet

TECHNICAL SKILLS

Languages: Python, C#, Java, C, PHP, MATLAB, Javascript, SQL

Web/Markup: HTML+CSS, AJAX, JSON, XML, YAML, Puppet

Other: Git, Unix, scikit-learn, Automated Testing, Unit testing, Machine Learning

AWARDS

- 2017** University prize for outstanding achievement in BSc Dissertation
- 2015** **1ST Prize** – Best of Britain Programming Competition hosted by Netcraft
- 2012** Sponsored prize for top first year Computer Science Undergraduates
- 2014** Bursary for Computing A-Level Performance
- 2010** 'Young Sports Performer of the Year' awarded by London Borough of Barnet

ACTIVITIES

- Judo – National Champion
- Computer Science Peer Mentor (2014)
- Combined Cadet Force
- House Captain & Senior Prefect (2013)
- Junior Sports Leadership Award

REFERENCES

J.P. Morgan Chase & Co.
Previous Employer
emea_hr_reference_request@jpmorgan.com

Dr. Julian Padget
BSc Dissertation Supervisor
masjap@bath.ac.uk

ABOUT

I am a dedicated, determined and well-organized individual with interests in machine-learning, finance and quantitative trading. I am a confident problem solver – my analytical and logical ability paired with my extensive programming experience enables me to design and build sophisticated software. I particularly enjoy tackling problems that require the application of data-science techniques.

For my BSc dissertation, I researched and built a commercially-successful large-scale distributed system that detects phishing threats in real-time using machine learning.

I have also developed several quantitative trading strategies in the sports domain, and built an execution platform that currently runs these strategies unattended.

LATEST PROJECTS

Automated Sports Trading (drawbycode.com/project.php?id=19)

- Wrote and deployed multiple automated trading strategies that use machine-learning to forecast goal occurrence
- The execution system was written from scratch in *Python*, and runs unattended 24/7
- Also wrote a data-analysis framework in *Python* (using *NumPy*, *scikit-learn*) to aid with signal identification and price generation

BSc Dissertation: Large-scale Lexical Classification of Phishing Websites

- Researched and identified the optimal classification algorithm and features for URL classification. Identified a variety of novel features that outperform existing literature.
- Built a large-scale distributed system (*Python*) that detects threats in real-time and feeds data to major firms such as Google.
- The system uses MQTT messaging to manage a network of asynchronous nodes (scales easily and operates in parallel).
- A commercial success – the project has been adopted by a prominent security firm.

WORK EXPERIENCE

2017 (Summer) Developer **Netcraft Ltd.**

- Integrating my BSc project to existing workflows in the firm
- Using machine-learning to identify online security threats (phishing, malware, fraud)
- Working primarily on Unix systems with tools such as *Git*, *Puppet*, *Python* scientific computing stack, *Keras*

2015 – 2016 Long-term Intern **J.P Morgan Chase & Co.**

- Worked on the firm's trade-bookings and risk-management platform using *Python*, *Enaml*, *Vertica (DB)*, and more
- Lead the design and development of a critical trade-monitoring and management system that is now used in both Commodities and FX
- Contributed to the build out of a distributed order-management system that processed feeds of orders from front-office

2014 (Summer) Developer **MyOffers Ltd.**

- Developed features for the firm's website
- Used *C#* for the back-end, interfacing with MongoDB and Redis
- Used Specflow.NET, NUnit and Selenium for testing
- Worked with tools incl. Mercurial, Visual Studio and Team City

2010-2014 Developer **www.drawbycode.com**

- Designed and developed websites for professional clients ranging from artist portfolios to e-commerce