Henri Woodcock

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Education

University of Leeds, BSc Mathematics with Finance. Grade: 1st Class 2016 – 2019

Final Year Project: Machine and Deep Learning for Stock Price Prediction: Comparison of Classification and Regression Techniques

Experience

BMLL

Senior Software Engineer Feb. 2023 – Present

Python Developer Aug. 2021 – Feb. 2023

Integration of AWS FSx for Lustre Designed, implemented, documented and led development of filesystem add-on to S3, to enhance customer experience. Engineered lifecycle management, UI, failover mechanisms, and automated testing for seamless integration.

Infrastructure Developing terraform modules to enable consistent, well-defined and securue infrastructure to deploy applications to.

Admin Tool Collaborated with product managers to develop admin functionality. Implemented roles-based system and React UI, boosting sales efficiency and easing tech workload.

CI/CD Advocate and development of software to automate packaging, testing and deployment of software. Improving efficiency and confidence in deploying software.

Other Customer support, bug fixes, code reviews, documentation, testing.

Arm

Dec. 2020 – Aug. 2021

Technical AI Evangelist

Developing Software to Enhance Ccosystem APIs to link deployed models to IOT, Python Packages to enhance dev experience, C++ apps showcasing use-cases, contributing to open-source (e.g. TensorFlow, Arm)

Developing Projects and Proof of Concepts Porting Arm advancements to partner software, writing blog posts catering to all levels, innovation building apps to entice customers (e.g deforestation apps).

Presenting and Hosting Workshops YouTube tutorials and workshops. Hosted workshop to 60+ industry experts and researchers to show optimising inference on Arm devices.

Jacobs Engineering

Sept. 2019 – Dec. 2020

Strategic Consultant

BP – Mooring Line Fatigue Analysis – Neural Network Development. Created and validated a neural network for mooring line fatigue prediction, significantly reducing computation time. Successful validation enabled further neural network research.

TRU – PRAM (Performance, Reliability, Availability, Maintainability). Converted asset management model to Python software - automated processes to achieve consistent and correct results, aiding in project deadlines.

Projects

Trckrspace https://trckrspace.com Help users monitor their applications by provide a simple REST API to store and retrieve events. Skills: Python, DynamoDB, AWS, React, NextJs

Micro Auth Service. Github Toy micro-service for authentication and authorisation. Skills: Docker, Python, Pytest, GitHub actions, Postgres

Technical Writing / Blog (Highlights)

- Over 10k total reach. Featured on: Towards Data Science and Geek Culture.

Highlights from blog Stop using np.random.seed() & A Simple Guide to Creating an Image Dataset & Optimal Sample Sizer Determination

Skills

Python, AWS, JavaScript/Typescript, Postgres, SQL, C/C++