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SKILLS

- Python PyTorch
- Linux C# Rust
- Computer Vision NLP
- LLMs Git CI/CD
- AWS Azure(ML)
- CDK IaC Docker
- Agile Collaborative
- Thoughtful Persistent

LANGUAGES

English
Native Speaker

Spanish
Intermediate proficiency

INTERESTS

Living in Edinburgh brings with it the benefit of allowing me to explore the wonderful nature that surrounds the city, so I do exactly whenever I can. On the rainier days - of which there are many - you can find me chatting away at language exchanges, in the kitchen testing out new recipes, or cozier up with a good sci-fi novel.

Peter Hessey

Machine Learning Research Scientist

Published ML researcher and accomplished cloud software engineer. From reducing cancer patient treatment delays to strengthening national security, I excel at translating cutting-edge academic research into practical, meaningful solutions. Forever eager to grow personally and technically within diverse, motivated teams.

EXPERIENCE

Machine Learning Research Scientist Mind Foundry

04/2023 - Present

Oxford, UK (Remote)

Oxford University AI research spinout developing responsible AI for high-stakes applications.

Achievements/Tasks

- Technical lead for research teams using Python, PyTorch and AWS to deploy ML solutions into UK National Security infrastructure, reducing operator workload and response times in high-stakes scenarios.
- Primary liaison for multiple key Defence & National Security stakeholders, leveraging strong leadership and communication skills to facilitate smooth collaboration within complex, high-security environments.
- Principal researcher driving Large Language Model projects for entity extraction and fraud detection.

Machine Learning Engineer Microsoft Research - Health Futures

04/2022 - 04/2023

Cambridge, UK

Achievements/Tasks

- Utilised Python, C# and AzureML to develop an open-source suite of tools for training and deploying CT and MRI segmentation computer vision models into the cloud.
- Deployed models into three NHS hospitals, reducing cancer patient scan result wait times by up to 90%.
- Spearheaded collaboration with NVIDIA engineers to deploy 3D CNN segmentation toolkits to AzureML.

Cloud Engineer Garrison Technology Limited

10/2021 - 04/2022

London, UK

Cyber security startup producing hardware-enforced secure remote browsing solutions for enterprise.

Achievements/Tasks

- Applied Python, AWS CDK and Linux knowledge to implement monitoring tools for secure alerting on system-critical failures using services such as Lambda, CloudFormation, ECS, VPC, DynamoDB and IAM.
- Employed tools such as GitLab, Docker and Kubernetes to upgrade and maintain CI/CD pipelines.
- Liaised with key stakeholders to roadmap international logging systems for our cloud security products.

Internships - Software Engineering & Cyber Security Amazon, IBM, GCHQ

2018 - 2020

UK

Achievements/Tasks

- Amazon** - Software Engineer with feature ownership of AWS-deployed Smart TV hardware test suites.
- IBM** - Cyber security intern, developed NLP sentiment analysis tools to automate social media monitoring.
- GCHQ** - Awarded GCHQ CyberFirst Scholarship. Cultivated Linux and Cyber Security fundamentals.

EDUCATION

Deep Learning - MScR Durham University

09/2020 - 06/2022

Durham, UK

Courses

- First author on an ECCV-published paper using transformer and diffusion models for efficient high-resolution image generation.
- Developed extensive knowledge of Python, PyTorch and transformers while significantly advancing Generative Vision AI research.

Computer Science - BSc First Class (Hons) Durham University

09/2017 - 06/2020

Durham, UK

Courses

- Algorithms & Data Structures, Deep Learning, Statistics, Cyber Security, Information Theory, Software Engineering, Advanced Databases.
- President of the Durham University Weightlifting Club & Head of Logistics for Durham's 2020 Hackathon.