Jason Dominguez

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EDUCATION

University of Manchester	Manchester, UK
Completed 1st year of Comp Sci. PhD in Generative Deep Learning	*Sep. 2021 – Mar. 2023*
University of Manchester	Manchester, UK
1st class MPhys in Physics (82%)	*Sep. 2017 – June 2021*
Thomas Hardye Sixth Form	Dorchester, UK
A levels: Maths (A*), Physics (A*), Music Tech (A), AS Further maths (A)	*Sep. 2015 – June 2017*

TECHNICAL SKILLS

Languages: C/C++ (5+ years), Python (5+ years)
Softwares & Frameworks: Git, Gerrit, Jira, Visual Studio/VS Code

EXPERIENCE

Associate C++ Software Developer — Apr. 2023 – Current
Carallon — *London, UK*
- Feature development and bug-fixing for Windows desktop apps and lighting systems firmware
- Problem solving with the UI (QT), backend logic and networking between devices (TCP/IP, Lon)
- Use Git for version control and Jira for workflow management
- Review code using Gerrit and use agile practices to meet software release deadlines for clients

Programming In My Degree — Sep. 2017 – June 2021
University of Manchester — *Manchester, UK*
- 1st year: Introduction to Python and C++ (80%)
- 4th year: Object-Oriented Programming in C++ (96%)
- 4th year: Machine Learning (ML) and Optimization (91%)
- PhD: Taught undergraduate course on ML and master's course on representation learning

PROJECTS

Machine Learning for Liquid Crystals | *Python, TensorFlow, OpenCV* — Sept. 2020 – June 2023
- Applied ML computer vision to identify different liquid crystal phases from their textures
- Published three co-authored papers to top-tier soft matter physics journals. Available HERE

Object-Oriented C++ Chess Game | *C++, OOP, Git, GitHub* — Apr. 2021 - June 2021
- Created a chess game, code available HERE
- Used advanced C++ features, such as inheritance, polymorphism, smart pointers, and exceptions

Gym Tracker API | *Python, REST API, Django, ReactJS, GitHub* — July 2022 – Present
- I created a gym tracking API to get familiar with RESTful APIs in Python. Implements CRUD operations and connects to a 3NF database. Code available HERE

Cloud API | *Terraform, GCP, Docker, Flask, Python* — July 2023 – Present
- I created a Flask API, with a two simple endpoints. This was containerized, using docker and deployed to Google Cloud Run using Terraform. Code available HERE

HOBBIES

Music | *Drums, Guitar, Vocals, original compositions*
- I am a musician, playing drums, guitar, bass, Canarian timple and singing
- I've written music which has been professionally recorded, available HERE