

Matteo Melis

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EDUCATION

Queen's University Belfast

Belfast, UK

Bsc Mathematics and Computer Science

Sep. 2021 – June 2025

- Predicted **First Class**, current weighted average **88%**
- Areas of focus: Artificial Intelligence, Concurrent Programming, Abstract Algebra and Financial Maths.

Coláiste Cholmcille Ballyshannon

Donegal, Ireland

Leaving Certificate

Sep. 2014 – June 2021

- Secured maximum score of **625 points**, graduating amongst **top 2.3%** of cohort.
- Achieved **100% in Maths** Paper 1 and six H1's in Applied Maths, Physics, Accounting, Business, and English.

EXPERIENCE

VISA Inc

June 2023 – Sep. 2024

Software Engineer Intern

Belfast, UK

- Contributed to development of 14 endpoints for **Visa's Merchant API** and screens, enhancing user experience and reliability for **10,000+ merchants** globally. (**Java Springboot, ReactJS, OracleSQL, Jenkins**)
- Collaborated with **release management** teams performing log validation in **Splunk** and sanity tests via Postman on live code releases, ensuring stability of **100,000+** daily API calls.
- Progressed an **innovation initiative** to migrate a server-based development application to **containerised** platform. (**Kubernetes, Helm Charts, Docker config**)
- Developed full-stack e-commerce platform integrated with a VISA payment solution for intern project.

Engineering Documentation Ltd

June 2022 – Sep. 2022

Automation Engineer

Sligo, Ireland

- Eradicated need for **£2,000** software subscription by creating a more extensive, customisable and reliable service embedded into modelling software through **Python** and pyRevit API.
- Received **BIM Hero token** of appreciation for "outstanding work and integrating (Python) programs into Revit - something which will improve reliability and efficiency for (them) with an immediate effect"

Online Mathematics Tutor

Jan. 2022 – Present

Self Employed - Part Time

- Delivering tuition to Higher Level Leaving Certificate Maths students, guiding 20+ students to their desired grade.

PROJECTS & EXTRA-CURRICULAR ACHIEVEMENTS

Q-Camp Quantum Summer School | *University of Gdańsk*

Sep. 2024

- Graduated from prestigious summer school of **25 ambitious scholars** from all over the world.
- **Quantum Hackathon winner**, best concept category, proposing quantum-safe modification of DNSSEC.
- Learnt key concepts from leading experts in **Quantum Information Theory**.

Codele | *React, tailwindCSS, shadCN, Clerk, Vercel*

Apr. 2024

- Created Wordle-inspired application that presents daily LeetCode challenges, featuring an integrated code editor to run solutions against test cases.

TenantBridge | *Springboot, MongoDB, OAuth, Vercel*

Oct. 2023

- Modelled a scalable B2C platform, streamlining workflows between landlords and tenants through **Springboot** and **MongoDB**.

Queen's University Hackathon Winner | *Python, Softr, Streamlit, powerBI, GitHub*

Dec 2022

- Prompted with rising cost of living crisis, developed a web-application acting as a **Data Analysis tool**, highlighting 4 key drivers contributing to crisis.

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, SQL/NOSQL, HTML, CSS

Frameworks: Maven, Springboot, React, JUnit, Jest, Shaden, tailwindCSS

Developer Tools: Git, Docker, Kubernetes, Postman, Vercel, Jenkins

Libraries: NumPy, Matplotlib