Cormac McHugh

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PERSONAL SUMMARY

Highly motivated Computer Science student with a solid foundation in Java, HTML/CSS, and SQL, and a strong interest in software development. Passionate about solving complex problems through creative, well-structured code and eager to contribute to a collaborative development team. Seeking a summer internship to gain hands-on experience with modern programming practices and apply my skills to real-world engineering challenges using Agile methodologies. I bring a proactive, curious mindset supported by hands-on STEM experience, including the Sentinus R&D Gold Award for high-quality research and project development, alongside multiple engineering and digital skills sprints across AI, cloud computing, software engineering and much more.

KEY SKILLS

Java (Foundational)	SolidWorks Software Proficiency	Excellent Communication Skills
HTML/CSS (Foundational)	AI Proficiency	Excellent Problem Solving Skills
Databases + Basic SQL	Effective Teamwork and Collaboration	Strong Organizational Skills

KEY PROJECTS & TECHNICAL WORK

Sentinus R&D Gold Award (91%)

Designed a full mechanical solution for an industry problem in collaboration with Collins Aerospace. Produced the CAD model in SolidWorks, validated the design, and manufactured a functional 3D-printed prototype. Ensured mechanical reliability through iterative testing and contributed to the final technical presentation.

A-Level Digital Technology – Microsoft Access Database

Built a relational database system in Microsoft Access following the CCEA specification, implementing structured tables, relationships, queries, forms, and reports. Produced a technical write-up documenting system design, data structures, testing and much more.

Systems Analysis & Design – Time Management App

Designed the interface and database for a time-management application supporting university students in organising their schedules. Created a full storyboard to define user flow and system behaviour, and contributed to the final presentation of the solution.

EDUCATION

University

Ulster University - BSc Computer Science + Industrial Placement
2025-2029

A-Level

Mathematics A
Physics B
Digital Technology B

GCSE

Mathematics A
English Lit/Lang AA
Digital Technology A
Technology and Design A
Further Mathematics B
Double Award Science B/B
Information Technology B
Physical Education B

RELEVANT WORK EXPERIENCES & SPRINTS

Seagate Work Experience - Electrical, software, and hardware engineering exposure.

Kainos Virtual Experience - Generative AI, Web Design HTML + CSS, Cyber Security exposure.

AWS Career Tour - Cloud Computing, AI & AI Literacy, Reliability and Maintenance engineering.

Fujitsu Virtual Experience - Quantum Computing, Cyber Security and digital skills exposure.

EMPLOYMENT HISTORY

What`s On Your Wall September 2023 - December 2025
Picture Framer

- Produced custom frames with precision and attention to detail
- Advised customers on materials and design choices
- Managed inventory, packaging, and workspace organisation
- Worked closely with team members to maintain quality standards

Poundland July 2024 - March 2025
 Sales Assistant

- Delivered friendly, efficient customer service
- Processed transactions accurately in a fast-paced environment
- Maintained stock displays and store presentation
- Collaborated with colleagues to resolve issues and support store operations

SuperValu October 2025 - Present
 Sales Assistant

- Provided clear, helpful service across multiple store departments
- Handled tills, cash lifts, deposits, and machine operations accurately
- Replenished stock and maintained clean, safe store areas
- Worked with the team to uphold high operational and customer standards
- Provided clear guidance at the TSN counter, ensuring smooth service for lottery, tobacco, and product enquiries.

ADDITIONAL PROJECTS

GCSE Website Development – Expression Web
Developed a multi-page website using Expression Web following the CCEA specification and scenarios, focusing on layout, navigation, and front-end interaction. Created supporting documentation outlining design decisions, development workflow, storyboards, verification through structured testing and much more.

GCSE Technology & Design – Product Design Project
Completed a full design project under the CCEA specification, including research, concept generation, modelling, and final product development. Produced detailed design documentation, technical drawings, and a functional prototype supported by structured testing and evaluation.

Software Development Coursework
Developed a range of small Java programs demonstrating core programming concepts, including algorithms, calculations, loops, methods, basic problem solving and more.

Personal Project
Currently developing a portfolio website using HTML/CSS with version control through Git and development in VS Code to showcase projects and technical work.

ACHIEVEMENTS

UKMT Senior Maths Challenge Bronze
Awarded for strong mathematical reasoning and problem-solving ability.

Sentinus R&D Gold Award (91%)
Recognised for high-quality STEM research and project development.

94% A-Level Digital Technology Database + Writeup Coursework Grade
Demonstrating strong technical design and documentation skills.

Brown Belt in Karate
Reflecting discipline, long-term commitment, and continuous skill progression.