

# 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 with AVEVA 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.

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## **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.

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## **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.