

Sean Óg McCartan

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SOFTWARE ENGINEERING PLACEMENT

Problem Solver | Disciplined | Innovative

Disciplined, technical and energetic Software Engineering student with experience in an intense healthcare working environment for over 2.5 years, with proven ability to be reliable and work hard. Over 5 years of experience studying computer science and related fields, consistently maintaining a strong academic record. Ability to lead/work in effectively and coordinated team environments. Expertise in user-centric design, relationship-building, and effective communication.

WORK EXPERIENCE

Omagh Hospital and Primary Care Complex – *Omagh, Co. Tyrone* 08/2022 - PRESENT
Domestic Assistant

Maintained a 95% Domestic Audit Score, amongst an intense healthcare environment.

- Ensure the Omagh Hospital is to the required degree of cleanly and sanitary standards.
- Perform COVID-19 and other high risk infection control tasks on a weekly basis.
- Be highly responsible and coordinated when handling and using dangerous chemicals.
- Have a friendly and calm demeanour when working around other staff members/the public.
- Practice patient confidentiality and always prioritize their care and wellbeing.

EDUCATION

Queen's University – *Belfast, Co. Antrim* 09/2023 - PRESENT
Bachelor's Degree of Engineering – Software Engineering

Christian Brother's Grammar School – *Omagh, Co. Tyrone* 09/2016 – 06/2023
A-Level's in Physics, Technology & Design and Software Systems Development.

PROFESSIONAL SKILLS

- Programming Languages - Java, Python, C#, C++, SQL, HTML, JavaScript, CSS and HTML.
- Software Skills - Adobe Photoshop, Circuit Wizard, Visual Studio, PyCharm and IntelliJ.
- Outstanding organizational, multitasking, and problem-solving abilities.
- Gifted in regards to team building and interpersonal skills.
- Great vision for customer/client priority in terms of design work.

GRADES

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Second Year Grades – Queens' University

as of 03/2025

- Data Structures and Algorithms – 78%
- Professional and Transferrable Skills – 73%
- Software Engineering and Systems Development – TBD.
- Systems Security and Cryptography – 72%
- Service Orientated Programming – TBD.

First Year Grades – Queen's University

05/2024

- Databases – 57%
- Fundamentals of Maths for Computing – 63%
- Programming (Java) – 58%
- Introduction to Cyber Security – 69%
- Introduction to Computer Architecture – 52%
- Software Design Principles – 46%

A Levels – Christian Brothers Grammar School

08/2023

- Physics – B
- Software Systems Development – A
- Technology and Design - A

AS Levels – Christian Brothers Grammar School

08/2022

- Physics – C
- Software Systems Development – C
- Technology and Design - B

PROJECT WORK

Personal

10/2024 - PRESENT

Part-Time Job Analytics Tool

- ****In Progress****

Queen's University Belfast

02/2025 – 03/2025

Service Orientated Programming – API Project

- Led a team in developing an integrated microservices architecture for a civil engineering system, demonstrating strong leadership and technical coordination skills.
- Developed three interconnected microservices using REST APIs, creating a robust and scalable system.
- Programmed the problem solution in Java using Maven and Spring Boot, showcasing industry-standard dependency management and build automation.
- Fully tested the system's functionality using Spring Boot tests via terminal.
- Applied OOP principles to create maintainable, extensible code structures.
- Designed and documented API endpoints, via postman.