

Thomas Cormican

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Education

B.Sc. in Computer Science Sep 2024 – May 2028 (Expected)
Maynooth University **1st Year Average: 98% | 2nd Year Average: 91.3%**

- **Academic Standing:** Ranked 1st out of 53 students across the second-year computer science cohort.
- **Honours Standard:** Achieved First Class Honours performance criteria across all completed academic terms.
- **Academic Distinctions:** Awarded the prestigious **Geary Prize for 1st Year Statistics** (June 2025).

Selected Coursework & Academic Highlights

Operating Systems: Concurrency (100%)	Databases & Relational Architecture (100%)
Web Information Processing (100%)	Introduction to Data Science I & II (98.5% Avg)
Computer Architecture (98%)	Software Engineering & Process (93%)
Calculus & Linear Algebra (95.5% Avg)	Algorithms & Data Structures I & II (88% Avg)

Experience

SPUR Research Intern Jun 2026 – Present
Maynooth University

- **Spearheaded comprehensive research** on automated assessment environments for computer science education, evaluating modern grading platforms to optimize curriculum delivery frameworks.
- **Engineered an automated grading pipeline** natively integrated into GitLab CI/CD pipelines, streamlining student code evaluation workflows and removing structural grading friction.
- **Designed testing suites** to programmatically validate student software builds against functional edge cases, speed benchmarks, and algorithmic targets.

IT Services Computer Assistant Jun 2024 – Present
Maynooth University

- **Resolved complex hardware, software, and network anomalies** across enterprise Windows and macOS deployments, minimizing operational downtime for the academic community.
- **Managed support queues** using Ivanti and Pubble ticketing systems, maintaining swift incident resolutions while meeting key internal SLAs.
- **Collaborated on systems triage** directly alongside senior network teams to diagnose Active Directory conflicts, access controls, and localized infrastructure faults.

Volunteer Tutor Jun 2024 – Present
Computer Science Centre, Maynooth University

- **Mentored undergraduate students** in functional programming fundamentals (Java/Python), strengthening their data structure selection patterns and structured syntax layout.
- **Facilitated laboratory clinics** exploring critical Object-Oriented Design patterns, scope handling, pointers, and memory constraints.

Projects

AI-Powered Expense Sharing App — Microsoft Mentorship Project Feb 2026 – Present

Technologies: React, JavaScript, HTML, CSS, Azure Functions, Relational Databases

- **Project Selection:** Awarded 1 of 4 highly competitive project spots out of an applicant pool of over 200 software students to build platforms guided by active Microsoft engineers.
- **Full-Stack Ownership:** Formulated the end-to-end service lifecycle architecture, integrating frontend interfaces with asynchronous serverless processing using Azure Functions and clean relational models.
- **Agile Operations:** Led team code integrations and managed distributed git tasks across sprint intervals, finishing an interactive, stress-tested service prototype.

CSPrime — Academic Visualisation Tool Jun 2025 – Present

Technologies: React, JavaScript, Git, Custom UI Graph Frameworks

- **Graph Architectures:** Built dynamic node-based visualizations tracking historical module prerequisites, removing friction for students plotting their multi-year course tracks.
- **Refactoring Frameworks:** Reconstructed state-handling processes across the application to isolate presentation layers, transforming legacy code targets into scalable modular builds.

Personal Website — Portfolio Site Jan 2025

Technologies: Next.js, TypeScript, React, Vercel, Tailwind CSS

- **Deployment Optimizations:** Conceptualized and developed an online web profile leveraging Next.js server routing targets to establish robust asset optimization and fluid layout responsiveness.

Technical Skills & Languages

Programming Languages:

Strong Working Proficiency: Java, Python, Rust, JavaScript, HTML/CSS

Proficient: TypeScript, R, SQL, Bash

Tools & Technologies: Git, GitLab CI/CD, Windows Enterprise, Linux Ecosystem, TensorFlow, scikit-learn, Next.js, React, pandas, NumPy, Azure Services

Languages: Spanish (Professional Working Proficiency) · Swedish (Beginner)

Certifications & Awards

- CompTIA A+ (Jun 2024) | CompTIA Network+ (Oct 2024)
- Machine Learning Specialization – DeepLearning.AI (Jan 2024)
- Microsoft Certified: Azure Fundamentals (Jul 2025)
- 1st Place – Maynooth University CSC MULE Coding Competition (Apr 2025, Semesters 1 & 2 2025/26)
- 1st Place – Maynooth University CSC Programathon (May 2025)
- Geary Prize for 1st Year Statistics (Jun 2025)