Ryan Pitman

Dublin, Ireland | (089) 253-6873
https://ryanpitman.dev/ | inomoncatnip@hotmail.com

Education

Technological University Dublin *B.Sc. Computer Science*
***GPA**: 3.8 / 4.0* ***Expected**: June 2027*

- *Class Representative, Student Council Member, Peer Mentor*
- *Programming and Algorithms Mentor (**C, Python, Java**)*

Technical Skills

Languages: C, Python, Java, JavaScript, TypeScript, ARM Assembly
Frameworks: React, Next.js, Node.js, Express
Tools: Git, Linux, Cisco Networking, REST APIs
Certifications: Cisco CCNA 3, CompTIA A+

Projects

Asteroids-F031 (C, Embedded Systems) *github.com/boarrr/Asteroids-F031*

- *Developed a bare-metal arcade shooter game for the STM32 F031 Microcontroller entirely in **C** and **ARM Assembly***
- *Integrated ADC-based potentiometer controls for ship rotations, button input for movement and LED life indicators*
- *Implemented PWM Audio output for sound effects using TIM3 hardware timers*
- *Developed game logic for player movement, meteor spawning, collision detection, scoring and menu screens within a fixed-frame update loop*

Personal Website (Next.js, TypeScript) github.com/boarrr/boar-website

- *Built and deployed a responsive personal portfolio site to showcase academic and embedded systems projects.*
- *Developed reusable UI components and implemented **SEO optimization** for fast, accessible browsing.*
- *Designed with **mobile-first principles** to ensure usability across devices.*

Experience

Programming and Algorithms Mentor – TU Dublin **May 2023 – Present**

- Mentored and guided fellow students on mastering programming concepts and algorithms such as Merge Sort, Dijkstra's Algorithm, and Trees.
- Created and delivered learning experiences based on our studies in data structures and algorithms, in C, Python and Java.

Delivery Executive – Foundry **July 2022 – August 2025**

- Performed quality assurance on large datasets, identifying and resolving inconsistencies to meet client specifications.
- Streamlined data handling processes, increasing review throughput by over 30% without compromising accuracy.
- Recognized for rapid performance and promoted within the first year due to efficiency and attention to detail.