

# Ryan Pitman

Dublin, Ireland | (089) 253-6873

<https://ryanpitman.me> | [inomoncatnip@hotmail.com](mailto:inomoncatnip@hotmail.com)

## Education

---

### Technological University Dublin

**GPA:** 3.8 / 4.0

*B.Sc. Computer Science*

**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](https://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](https://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.*