

# RYAN KING

11b Cameron Street, Botanic Avenue, Belfast, BT7 1GU

📞 0838320765

✉️ [ryannkingg1@gmail.com](mailto:ryannkingg1@gmail.com)

🌐 [linkedin.com/in/ryank1ng](https://www.linkedin.com/in/ryank1ng)

🐙 [github.com/ryanking3](https://github.com/ryanking3)

## Education

### Queen's University Belfast

*Bachelor of Science in Computer Science*

Sep. 2022 – June 2026

*Belfast, UK*

### Loreto Community School

*Secondary School*

Sep. 2016 – July 2022

*Milford, Donegal*

## Relevant Modules

- Data Structures and Algorithms
- Software Engineering and Systems Development
- Theory of Computation
- Artificial Intelligence and Machine Learning
- Professional and Transferable Skills
- Fundamentals of Math for CS
- Cybersecurity
- Databases
- Object Oriented Programming
- Computer Architecture
- Procedural Programming

## Experience

### Rigup

July 2024 – September 2025

*Software Engineer Intern*

*Belfast, UK*

- Developed a React Native mobile application enabling field workers in the Oil & Gas sector to receive job assignments, track locations, and automatically report positional updates to clients.
- Upgraded all product codebases from NextJS-Auth0 v3 to v4, rewriting authentication middleware and custom logic to align with the new API.
- “Implemented a notification system for Client ‘Watchers’, building backend endpoints to send automated email and SMS alerts.
- Contributed to an internationalisation sprint preparing products for a Canadian audience; audited regional feature gaps and delivered required frontend updates.
- Delivered a client-requested feature enabling vendor invoice approvals within our platform, coordinating directly with stakeholders to meet a tight delivery deadline.
- Invited to extend my internship beyond the initial contract following strong performance and successful project delivery.
- Used CircleCI to automate deployment pipelines and tested the application in multiple environments (development, staging, and production) to ensure reliability and consistency.
- Spent a month in ‘Mission Control’, providing on-call support for critical incidents, troubleshooting issues, and ensuring minimal downtime for clients.

### Queen's University Belfast

Sep 2025 – Present

*Practical Lab Demonstrator*

*Belfast, UK*

- Providing guidance to first- and second-year students in Procedural Programming, Software Engineering, and Cybersecurity practicals
- Assisting students with programming tasks and internship preparation during lab sessions.
- Re-evaluating course material from a teaching perspective to better support student understanding.

## Leadership / Extracurricular

### Student Ambassador and Course Representative

Oct 2022 – Present

*Queen's University Belfast*

- Represent Computer Science students by communicating feedback to faculty and university administration.
- Support prospective students at open days, offering insights into university life and course structure.

### QUB Poker Society

Jan 2024 – Aug 2025

*Vice President & Co-Founder*

*Queen's University Belfast*

- Co-founded the Queen's Poker Society with peers and successfully presented the proposal at the Students' Union ratification meeting to establish the society.
- Collaborated with SU representatives to develop the society's constitution, event structure, and promotional strategy.
- Helped grow membership and coordinate regular tournaments and social events.

### Dillon's Hotel

Apr 2023 – June 2024

*Food and Beverage Server*

*Letterkenny, Ireland*

- Worked collaboratively in a fast-paced hospitality environment, strengthening teamwork, adaptability, and communication skills.
- Trained new staff on service procedures and contributed to maintaining high customer satisfaction standards.
- Developed time management and multitasking abilities while balancing part-time work with university commitments.

## Projects

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### **ryanking.online** | *Typescript, TailwindCSS, NextJS, Vercel*

**Oct 2022 - Present**

- I have been maintaining and continuously reworking my personal portfolio website for years, with my latest rework starting in September, 2025.
- The current version of this website is made with Typescript and bundled with NextJS. The site is deployed and managed using Vercel.
- The site features some clean CSS details to give it a simplistic terminal theme.
- The site showcases an updated list of tools, projects, and essays.

### **Chaos Theory Based Image Encryption** | *Typescript, React, TailwindCSS*

**September 2025**

- Authored an essay on Chaos Theory and its application in image encryption, accompanied by an interactive demo enabling users to encrypt/decrypt images via adjustable parameters
- Utilised Latex packages to format the formulae in the essay.
- The core encryption functions were written with Typescript, and the I/O aspect of image upload / download was done using the Canvas API.

### **Monero Exchange Chrome Extension** | *JSON, Javascript, Google Chrome Dev Tools*

**October 2025**

- Currently building a Chrome Extension that allows users to quickly convert different amounts in various currencies to Monero, a widely used privacy-focused cryptocurrency (XMR).
- Implemented a feature where users can highlight an amount on a website (e.g. "\$60.70") and right click the amount to directly see the price in XMR.
- Planned for publication on the Chrome Web Store upon completion.

### **Poker League Management System** | *Typescript, Kotlin, Supabase, BetterAuth*

**Sep 2025 – Present**

- Currently building a web platform for managing poker leagues, including player registration, league standings, and automated notifications.
- Utilising Supabase as the backend for authentication and database management, with BetterAuth for secure login and session management.

## Technical Skills

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**Languages:** Python, Java, C++, HTML/CSS, JavaScript, Lua, Typescript, Kotlin, Mongo, SQL

**Developer Tools:** Neovim, Docker, Google Cloud Platform, Android Studio, XCode, Postman

**Technologies / Frameworks:** Next.js, Auth0, GitHub, Vercel

## Achievements

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### **STEM Competitions and Hackathons**

**2019 – 2022**

*Team Leader / Participant*

*Ireland / UK*

- Regional Winner, Scifest (2019) — recognised for innovation in developing a facial recognition system for Covid-19 mask detection.
- Finalist, BT Young Scientist Exhibition (2020) — selected among national finalists for the same project.
- Runner-up, HKD Hackathon (2022) — led a team of five to design and present a solar energy savings prototype.