

# EVAN BYRNE

## SOFTWARE ENGINEER

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### About Me

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As a 22-year-old MSc Computer Science student with a strong undergraduate foundation, I'm seeking opportunities to start my career in December 2024 or upon completing my studies. My unique blend of research practice, programming skills, and understanding of human psychology makes me an adaptive and versatile candidate. I bring a combination of technical proficiency and human insight to every project.

### Education

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#### National College Ireland

*Bachelors of Arts (Hons) in Psychology*

Sep 2020 – May 2023

*Dublin*

**Relevant Courses:** Applied Statistics, Cyberpsychology, Learning and Behaviour, Research Skills, Social Psychology, Cognitive Psychology

#### University College Dublin

*Masters of Science in Computer Science*

Sep 2023 – Dec 2024

*Dublin*

**Relevant Courses:** Operating Systems, Python OOP, Java Programming, Software Engineering, Data Analytics, Data Structures and Algorithms, Network Systems Architecture and Organisation

### Projects

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#### Anseo | *In Progress*

ReactTS | SpringBoot | PostgreSQL | Docker | TailwindCSS | FastAPI

- Engineered a product with **machine learning** application that helps new entrepreneurs select ideal places to setup or move their business within New York based on their preferences
- Worked in a **team** of six as maintenance lead contributed to both backend and frontend operations
- Implemented real-time rental information using **python** scripts and **PostgreSQL** database through the effective use of **SQL** queries, and **web crawling technologies** and established seamless integration with a user-friendly **ReactTS** and **TailwindCSS** interface
- Containerised all parts of the project, **ReactTS** frontend, **Spring-Boot** backend and **FastAPI** ML api endpoints for easy deployment using **Docker**
- Deployed and hosted project on **AWS** using **EC2** cloud service and **RDS PostgreSQL** database
- Integrated a **Mistral LLM** (large language model) on the frontend for users to freely ask questions about business and locations in New York

#### Euro Bikes | *In Progress*

ReactTS | Go | Figma | FastAPI | TailwindCSS | Gin | Pytorch | Docker

- Developed an easy to use intuitive world wide biking station predictor and route planner with a **ReactTS** interface **Gin Go** backend and **FastAPI microservice** for machine learning model endpoints
- Worked in a team of two to complete this project. Dividing work between **figma** mockups, **frontend** and **backend** operations
- Trained prediction models using **Pytorch** to inform users about bike availability trends for particular stations.
- Scraped data from open source APIs using **Python** scripts to gather historical data to train **machine learning** models on bike availability.
- Deployed application using **Hetzner** cloud services and **Coolify**.

#### Captain Carbon | *Source Code*

Java | LibGDX

- Engineered a 2D educational game targeted towards young children regarding carbon emissions using **Java** and **LibGDX** framework
- Worked in a **team** of five coordinating efforts on all aspects of the game
- Used **psychological** gamification principles to design levels and setup of the game
- Game was published in the IEEE ITSC 2024 conference for **research** and future use.

## Work Experience

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### Court Hotel Tullamore

Nov 2023 – Nov 2023

Waiter

On-Site

- Worked in a high pressure environment as a waiter attending to banquet, wedding and breakfast duties.
- Learned to quickly **coordinate** and **communicate** with team members to give efficient service to customers.

### Tesco Tullamore

Nov 2021 – Feb 2022

Shop Floor Assistant

On-Site

- Learned **time management** and how to **balance** time between my undergraduate studies and part-time work.
- Improved my **communication** skills working a part of a **team** and taking direction from management through following orders and talking with managers and co-workers.
- Learned the best manner to communicate and deal with different **stakeholders** in the business by talking and helping customers, co-workers and managers on a daily-basis.
- Learned how to **collaborate** and **cooperate** with co-workers in my team by managing workplace and store duties daily.

### Tesco Tullamore

Dec 2022 – Dec 2022

Cashier

On-Site

- Returned to work as a seasonal worker whilst doing my undergraduate.
- Was trained in on cash handling and the front end of the store by handling purchases and returns for customers daily.
- Improved **communication** skills and learned how to work in a different **environment** compared to my last tenure by working as a cashier and communicating more with customers.

### Tesco Tullamore

June 2023 – Sep 2023

Shop Floor Assistant

On-Site

- Returned to work as a shop floor assistant again after finishing my undergraduate degree in psychology for the interim before starting my Masters degree.
- Further refined my **communication** and **time management** skills by spending time **coordinating** and **communicating** with co-workers on how best to handle duties of the shop.

## Technical Skills

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**Languages:** Python, Java, SQL, HTML5, CSS, JavaScript, Go, Typescript

**Developer Tools:** Postman, Git, Pytest, JUnit, Jest

**Libraries/Frameworks:** AWS, ReactJS, PostgreSQL, Spring Boot, NodeJS, Docker, TailwindCSS, Scikit-learn, Pytorch, Tensorflow, ExpressJS, Pandas, Matplotlib, Vite, NextJS

**Databases:** Postgres, MongoDB, MySQL