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LinkedIn Profile
GitHub Repo
Portfolio Website

EDUCATION

MAI in Computer Engineering **Trinity College Dublin** **Sep 2017 – Oct 2022**

This was a 5 year integrated masters degree. I was one of the top students in my year, passing with distinction, and maintained a high first-class honours in every year. My master's thesis was in the area of **natural language processing** and **deep learning**. In particular, it focused on leveraging emotion detection for truth sentiment analysis.

I am also a **Trinity College Scholar**. Scholars are selected based on a special examination and receive a full scholarship from Trinity College as well as other bonuses.

- **MAI** in computer engineering awarded with **Distinction**.
- **First class honours** maintained across all 5 years
- **Trinity Foundation Scholar** - a full scholarship awarded based on performance in exams.
- Masters Thesis title: Detecting Fake News by Leveraging Emotion.

Leaving Certificate **Gonzaga College, Dublin** **Sep 2011-May 2017**

- I sat and passed the Leaving Certificate exam in 2017. I received 601 CAO points putting me in the top 1.1% of students who sat the exam in that year.

EMPLOYMENT

Software Development Project Lead **Carbon27** **Feb 2023 - Current**

Carbon27 is a start-up looking to generate digital carbon credits using blockchain technology. I was employed to build a fully functional IOT smart meter capable of networking over the Internet. I worked solo on the project. I found I learnt a lot from this as I was required to handle hardware level issues, as well as higher level software issues, such as networking and front-end design.

- Built a fully functional IOT smart meter capable of reliable networking over the Internet primarily using **Python** and **C**.
- Designed and deployed smart contracts on the ethereum network using **Solidity**.
- Designed cloud architecture. **InfluxDb** and **PostgreSQL** were used for data storage. **Node.js** was used to handle server-side processes. **React** was used to create a front-end with the **Next.js** framework.

Waiter **Wen Cheng Restaurant (Berlin)** **Aug 2022 – Oct 2022**

Wen Cheng is a noodle restaurant located in Berlin, Germany. I worked there for several months following the completion of my master's degree exams. A very busy restaurant, which demanded quick service. I gained valuable experience working with and serving people from a wide range of cultures.

Floor-staff **Explorium** **May 2019 – Sep 2019**

Part-Time Weekend Manager **Merrion Vaults** **Jun 2018 – May 2019**

App Development Intern **MyWallSt** **May 2018**

I spent several weeks working as an intern for MyWallSt, a small app company. Their app focuses on stocks and investment. As such I learnt a great deal about investment, as well as being part of an app development team.

TECHNICAL SKILLS

Languages

- **Proficient:** C++, C, Solidity, Python, SQL, Bash, Java, Javascript, HTML, and CSS.
- **Familiar:** Assembly, GO, MatLab, and R.

Machine Learning: Extensive experience with Scikit-Learn, Pytorch, Keras, and Tensorflow frameworks.

Natural Language Processing: The subject of both my fourth-year dissertation and my final master's Thesis. I am extremely familiar with the terms and concepts of this field of study.

Testing: Unit testing with Jest and Junit.

Front End: React, Next.js, Vite, Tailwind.

Back End: Node.js with Express.js, AWS, Docker, PostgreSQL, InfluxDb, no-SQL, Kubernetes.

Tools and Frameworks: Jira, Git/GitHub, VS Code, IntelliJ, Android Studio, Linux, Tableau

PERSONAL PROJECTS

For more personal projects, please visit my **GitHub Repo** or my **Portfolio Website**.

Using AI to estimate the reliability of news based on comment sections

A personal project that inspired the topic of my master's thesis. Python with selenium was used to scrape comment sections for training.

- AI models were trained using **Tensorflow** and **Keras**.

Website with a cryptographic ledger

A learning project while teaching myself the core technologies behind blockchain.

- Backend built with **Node.js** and **Express.js**.
- Front end built with **React** using the **Vite** framework.
- ECDSA cryptography implemented using **ethereum-cryptography** npm package. Allow users to securely sign off on transactions.

ADDITIONAL EXPERIENCE AND AWARDS

Languages

- **Fluent** in Irish. I completed my primary school education through Irish, and subsequently attended Irish language summer schools throughout secondary school.
- **Intermediate** French. I studied French in secondary school, and I spent 5 weeks in Brittany while at school.

Awards and Achievements

- **Exhibition Prize:** Awarded by Trinity College Dublin based on Leaving Certificate results.
- **Trinity Scholar:** Awarded by Trinity College Dublin based on performance in the scholarship exam. .
- **Applied Maths:** Represented my secondary school at the National Applied Maths Competition in 2017.
- **Gaisce Bronze award:** The Irish President's award.