

# Winnie imafidon

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## EDUCATION

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### University College Dublin

*Master of Science in Computer Science*

Dublin, Ireland

Sep 2022 – Jan 2024

- **Current GPA:** 3.63/4.2 (Second Class Honours)
- **Modules:** Network and Internet System, Data Structure and Algorithms, Ethical Hacking, Information Security, Advanced Machine Learning Web App Development, Software Engineering, Information Security, Big Data Programming, Data Analytics

### Coderschool

*Web Development Bootcamp*

Vietnam

Jan 2021 – Aug 2021

- **Grade:** Pass

### Trinity College

*Bachelor in Social Science and Economics*

Dublin, Ireland

Aug 2014 – Jul 2018

- **GPA:** 3.55/4.0 (Second Class Honours)

## TECHNICAL SKILLS

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**Programming Languages:** Java, Python, JavaScript, HTML/CSS, SQL

**Frameworks,** ReactJS, Flask

**Data Technologies:** SQL (MySQL), NoSQL (MongoDB), Tableau, PowerBi

**Cloud and DevOps:** AWS EC2, AWS RDS, Linux

**Others** Machine Learning / AI technologies, RESTful API, Git/GitHub, CI/CD, TDD, Postman

## WORK EXPERIENCE

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### Dublin City Council, Ireland

*Data Analyst Intern | Information and Technology Department*

Nov 2023 – present

Dublin, Ireland

- Providing analytics, based on reliable, structured data to aid in informing service delivery choices and provide insight in real-time.
- Supporting the development of efficient databases.
- Automating processes for efficient workflows for services within the organization.
- Collaborating and working with internal and external partners on data-driven projects that use technology to improve the quality of life in Dublin City.

### University College Dublin, Ireland

*Software Engineer Intern | School of Computer Science Department*

May 2023 – August 2023

Dublin, Ireland

- Focused on front-end development, contributing to user interface design.
- Collaborated with the back-end and data teams to overcome challenges in OOH (Out-of-Home) advertising, particularly billboard advertising, by utilizing Geographical Information System (GIS) data and advanced machine learning techniques.
- Used ReactJS, MapillaryJS, and Chart.js to build a front-end map interface.
- Collaborating and working with internal and external partners on data-driven projects that use technology to improve the quality of life in Dublin City.
- Implemented machine learning models to provide user recommendations.
- Developed secure user login, logout, and registration functionality.
- Ensured responsive design for optimal user experience across devices.

### The Insight Centre of Data Analytics, Ireland

*AI and Data Analytics Intern | UCD*

Sept 2022 – May 2023

Dublin, Ireland

- Using SQL to pull data for ad-hoc requests.
- Conducting data cleaning, data merging, data quality control, and back-ups.
- Creating documentation for each data request or research project.
- Maintaining and updating dashboard datasets in Tableau or Power BI
- Performing various data analyses using statistical programs

- Interpreting the findings and provide conclusions.
- Attending regularly scheduled staff meetings and training sessions.

## Vietnam

Feb 2020 – Jan 2021

*Private Highschool Maths Tutor*

*Ho Chi Minh, Vietnam*

- Implemented data-driven strategies to improve students' mathematical skills, demonstrating strong data analysis and problem-solving abilities.
- Incorporated educational software and tools to enhance data collection and analysis for student performance evaluation.

## Social Changemakers, Vietnam

Nov 2021 – Sept 2022

*Web developer and Social Media Assistant*

*Ho Chi Minh, Vietnam*

- Supported event coordination and data management to ensure seamless execution and successful outcomes.
- Assisted in social media management, utilizing analytics to evaluate and enhance online engagement.
- Contributed to web development in Wix Software, including data collection and analysis for website optimization.

## Tusla, Ireland

June 2018 – Feb 2020

*Data Entry Clerk, Ireland | Mullingar*

*Co. Westmeath, Ireland*

- Transferring data from hard copy to a digital database.
- Update user information in a database.
- Performing regular database backups to secure data.
- Sort and organize hard copies of paperwork after entering data electronically.

## PROJECTS

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### Asteroid | Back-End | JavaFX

Feb- May 2023

- Developed modern reinterpretation of classic arcade game using JavaFX
- Implemented game logic and mechanics with JavaFX to ensure smooth gameplay.

### Advantage | Front-End Developer | JavaScript, React, Material-UI, JWT

May 2023- June 2023

- Developed a website for advertisers to find busy areas in NYC, consisting of 5 distinct pages and 25 custom components
- Implemented authentication functionalities encompassing user registration/login, auto-verification, and page interception
- Implemented a responsive UI featuring authentication, heatmap visualization, advanced map interactions, recommendation lists, and a dashboard

### Machine Learning - Fatigue Detection | Python

Nov 2023

- Working with time series data and identify effective models for analysis.
- Utilised data preprocessing techniques and hyper-parameter tuning to achieve higher accuracy and stable, generalisable models.
- Applied Rocket Transformer with various models to evaluate their performance in classifying time series data.

### Dublin Bike | Full-stack | Python, Flask, Google Map API, Random Forest Model

Feb 2023 – Apr 2023

- Led data scraping, storage, UI design, API development, and implemented a machine learning model achieving over 90% accuracy
- Key features include: interactive map with real-time bike data, predictions and visual trends for bike availability, and custom station recommendations and route displays based on user inputs

### Machine Learning - Robo Racer | Python, Stable-Baseline-3, Tensorboard

Feb 2024

- Utilising reinforcement learning to train a simple self-driving racing car OpenAI Gym Racing environment
- Using hyper-parameter tuning for single stack and multi-stack PPO agent to see which agent performed better in the environment

## CERTIFICATION

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### Google Cybersecurity

*Coursera*

Dublin, Ireland

*Feb 2024 - present*

- **Status:** Currently Pursuing (Expected Completion: September 2024)
- **Grade:** PASS