112 The Green, Clara, Co. Offaly

Phone: 083 4099977

E-mail: [ray\_fitzpatrick@hotmail.com](mailto:ray_fitzpatrick@hotmail.com)

Web: <https://rayfitzpat.github.io/index.html>

LinkedIN: [www.linkedin.com/in/ray-fitzpatrick-351a801a2](http://www.linkedin.com/in/ray-fitzpatrick-351a801a2)/

Ray Fitzpatrick

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Education:

**September 2019 – Present**  **Technological University of the Shannon (TUS)**

Hons. Degree in Software Design with Cloud.

Currently in 4th year and on track for a 1.1 First class honors degree.

GPA: Year 1: 83%

Year 2: 89%

Year 3: 80%

**September 1995 – May 1998 TUS (Formally Athlone Institute of Technology)**

Degree in Hotel and Catering Management.

Notable Projects:

**Newsagent Delivery System** [Java, JDBC and SQL]

<https://github.com/Rayfitzpat/NewspaperDelivery>

● Working as part of a team of 5, we employed Agile and Scrum processes, created user stories, and implemented test driven development using Junit tests.

● We developed an SQL DB, used JDBC to connect with Java, and implemented both a CLI and GUI so the user could fully interact with the project.

● I tested and coded the delivery person section, designed and coded the entire GUI, and created all the initial databases used in the project.

● We received great praise for the project’s planning and execution, and I got a score of 97% for my contribution.

**Automatic Number Plate Recognition System** [Python & Machine Learning]

● My 4th year project is to create a functional ANPR system for use on live and recorded video and also from photographs. I will use object detection to identify a number plate and then Optical Character Recognition to get the plates data. Then pass this data through an API to get the respective car information such as make, model, engine size, NCT status etc.

● The project will be primarily built in Python and use libraries such as TensorFlow, pyTesseract, Pandas and Matplotlib. The user interface will be built using HTML, CSS, JS, and Flask.

● This will be my first time working with Python, machine learning and OCR

Relevant Employment:

**January 2022 – August 2022 Ericsson, Athlone**

***8 Month College Placement***

* Working with Team Looney Tunes in Modelling
* Gained extensive knowledge of ENM and its architectural layers.
* Worked with physical, virtual and cloud servers
* Completed stories, improvements, spikes, and support tickets.
* Helped in the running the INFUSE program where I taught 14 kids the basics of Java, Agile, Scrum and Android Studio. After the success of this pilot program, it has now been extended and will run 3 times per summer.

**June 2021 – August 2021 Ericsson, Athlone**

***Summer Co-op***

* Working with Team Scrum U in Auto-Provisioning
* Coding in Java and JavaScript
* Worked with Virtual Machines, Linux, and testing on virtual servers.

**June 2020 – August 2020 Ericsson, Athlone**

***Summer Co-op***

* Working with Team Odin in Auto-Provisioning
* First introduction to the Software Industry
* Gained working knowledge of Agile and Scrum practices including Sprint planning, grooming, retrospectives, and daily stand-up meetings.
* Learned industry standard code practices.

Other Employment:

15 Years’ experience as a manager working in the Hotel Industry.

Planning, rostering, budgeting, and day to day running of all hotel areas including accommodation, front office, restaurants, bars, and conferencing.

Organising and supervising hundreds of weddings and events.

In charge of 100+ staff and managers.

Skills:

* Excellent organisation & time management skills gained throughout my career.
* Exceptional people management and project management skills.
* Proficient in MS Word, Excel, and PowerPoint.
* Good working knowledge of IntelliJ, Visual Studio Code, PyCharm, SQL Workbench, GitHub.
* Working knowledge in Java, JavaScript, HTML & CSS, SQL
* Growing knowledge in Python. 4th year project developed primarily in Python.
* Developing knowledge in Machine Learning and Data Visualisation.
* A selection of my projects can be seen at <https://rayfitzpat.github.io/gallery.html>