

Cathal Dooley

Always striving to be a motivated and creative person.



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Galway, Ireland

cathaldooley.com

WORK EXPERIENCE

Magnify

08/2017

Digital marketing agency in Galway

Contractor (Single Project)

Roles:

- Develop data driven insights platform for marketing agency
- Perform analytics on large datasets relating to beverage sales across the U.S. to produce valuable insights and visualisations

The Insight Centre for Data Analytics

01/2016 – 08/2016

Data analytics centre in Galway

Full Stack Engineer

Roles:

- **Back-end Development:**
Implement client-facing APIs for the web application using DeployR framework
- **Front-end Development:**
Design and develop the web application UI

Research Assistant

Roles:

- Research focused on extracting insights from sport related data.
The problem domain of this project was prevention of injury and fatigue in sport and enhancement of athletic performance using insight gained from biomarker data

SKILLS

- Good communicator
- Honest, loyal and hard-working
- Creative
- Flexible
- Team player
- Eager to learn
- Problem-solver
- Determined and persistent

TECHNICAL COMPETENCIES

- **LANGUAGES** JavaScript, Java, R, Matlab
- **DATA STORES** MySQL
- **FRAMEWORKS** R Shiny, DeployR, Docker
- **DATA PROCESSING** Databricks, Jupyter Notebooks
- **PROJECT SHARING** Git, Atlassian Jira

PROJECTS

Data Visualisation and Machine Learning Web Application | R, R Shiny

Web application for visualisation, classification and clustering of user data. The web application uses mathematical algorithms to generate statistical analytics and produce machine learning models. Users can interact with the application by uploading their own dataset(s) to generate a prediction model by selecting an appropriate machine learning algorithm.

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The Laser Guitar | Arduino Uno Microcontroller, C

An electronic laser guitar that can teach users how to play a specific song or allow an experienced user to freely play the laser guitar.

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EDUCATION

B.Eng Electronic and Computer

N.U.I Galway

09/2013 – 05/2017

Results:

- First Class Honours

INTERESTS

- **Music:** Composition, production, guitar
- **Sports:** Soccer, GAA
- **Technology:** Artificial Intelligence, machine learning, digital audio workstations