



# Richard Jackson

## Software Engineer and Musician

*MSc. Computing student & freelance creative*

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### Core Competencies

Highly creative individual with passion for elegant, logical solutions.

Strong focus on communication, mediation and managerial skills.

Experienced educator and creator of educational content.

Deployed projects with frameworks such as Flask, Django & Jekyll.

Experience with game engines such as Unity and Godot.

### Occupational History

**Student & Student Staff Representative** | MSc. Computing Cardiff University (2021-)

Developed communication and organisation skills as chair of Staff Student Panel and postgraduate student representative for Student Satisfaction Enhancement Panel

Ran informal, weekly educational seminars (known as "WTF is...") on Computer Science concepts during the first term of the course to support other students with initial learning.

**Freelance Musician** | (2015-2021)

Educator, performer and producer.

Created digital learning materials and education applications.

Self-published music, organised and promoted events.

Specialist areas: singing, guitar, piano, conducting, drum programming, sound design.

**Data Scientist** | EUI Ltd (2011-2015)

Primary responsibilities involved creating reports generated with SQL/SAS.

Forecaster for Work Force Management department of Customer Service department.

Won Star Award for mediation and improving inter-departmental relations.

Received support and funding for evening classes in Python and PHP/MySQL.

## Examples of educational content produced (YouTube: "JacksorJacksor")

**Setting up VS Code for HTML/CSS & Python/Jupyter Notebooks** (2021): made for fellow MSc. students struggling with initial set-up of their development environments.

**Deploying a Wagtail site to Python Anywhere via GitHub** (2021): explanation video of entire deployment process. Includes explanation of DNS servers and basic web page requests.

**Building an artist portfolio site** (2021): covers deploying a static site to Netlify via GitHub.

## Game Jams

**Global Game Jam** (2022): co-created entire game (HTML/CSS/JS + audio).

**Stop Waiting For Godot** (2021): entire game (Godot engine, GDscript + audio).

**Ludum Dare** (2021): entire game (HTML/CSS/JS + audio).

**Fuse Jam Bristol** (2020): audio and music.

## Educational History

**MSc. Computing** (predicted grade: dist.) | *Cardiff University* (2021-)

Developing strong technical skills through focusing on learning computer science fundamentals while solidifying previous knowledge.

**MMus. Composition** (dist.) | *Cardiff University* (2008-2010)

Creative and timekeeping skills developed through writing music.

Interpersonal, managerial and leadership skills developed through conducting choirs and ensembles (notably forming the Cardiff Kazoo Orchestra for Comic Relief '07).

Dissertation: wrote a chamber opera called "All Is Madness"

**BA. Pure Mathematics with Music** (hons) | *Cardiff University* (2005-2008)

Disciplined multitasking developed due to demands of dual-disciplined learning.

Strong networking skills developed through social and societal university interactions.

Dissertation: mathematical analysis of Scarlatti keyboard sonatas.

## Awards

**Duke Of Edinburgh Gold Award** (2013) | *included canoeing in Canada and teaching in South Africa.*

**EUI Star Award** (2015) | *received for improving inter-departmental relations.*

**A.B. Daly Award** (2008) | *received from Cardiff University School of Music for high quality of work and contribution to the department*