

# RUARI MOLYNEUX

Software Engineer

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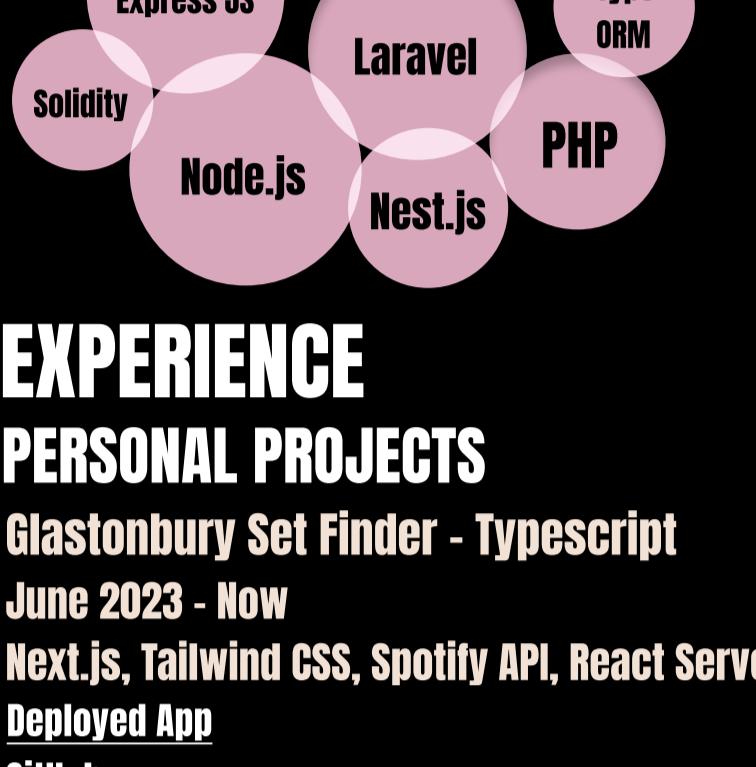
## ABOUT ME

A self-motivated engineer with professional experience in front-end and back-end development, skilled in a range of technologies including React.js, Node.js, and Laravel. I have successfully constructed software solutions for clients, transforming their concepts into functional products. I thrive on tackling challenges, whether it involves problem-solving, crafting innovative features, or bringing new ideas to the team. I am eager to join a dynamic team where I can continue to learn and make a positive impact.

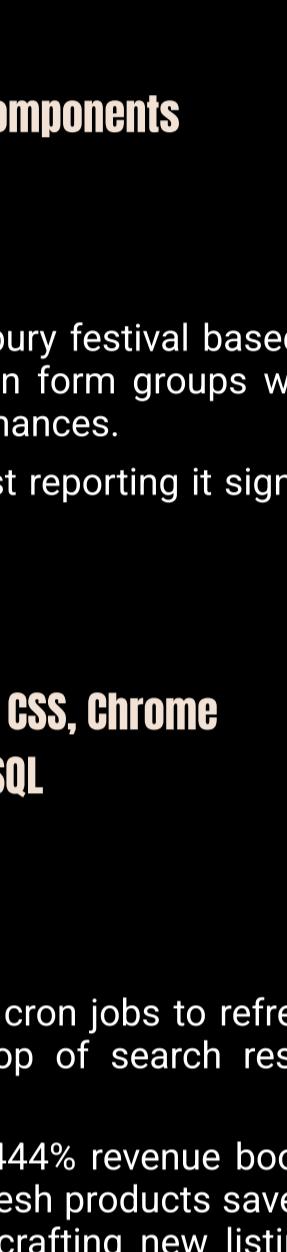
## SKILLS

SIZE REPRESENTS KNOWLEDGE BASED ON EXPERIENCE

### FRONT-END



### OPS / OTHER



## EXPERIENCE

### PERSONAL PROJECTS

#### Glastonbury Set Finder - Typescript

June 2023 - Now

Next.js, Tailwind CSS, Spotify API, React Server Components

[Deployed App](#)

[GitHub](#)

[Video Demo](#)

An app that suggests performances for Glastonbury festival based on the users Spotify liked tracks. Additionally, users can form groups with their friends and vote on their most anticipated performances.

Feedback from test users has been positive, most reporting it significantly improved their festival planning experience.

#### Depop Refresher - Typescript

May 2023 - Now

React.js, Plasmo Extension Framework, Tailwind CSS, Chrome

Extension API, Nest Js, TypeORM, Turborepo, MySQL

[GitHub](#)

[Chrome Extension](#)

[Video Demo](#)

A Chrome extension for Depop sellers that uses cron jobs to refresh their products automatically, keeping them at the top of search results for potential buyers.

Currently used by a Depop store, resulting in a 444% revenue boost from June to July. Removing the need to manually refresh products saves hours of the seller's time allowing them to focus on crafting new listings and expanding their store.

#### Social Planner - Typescript, PHP

Dec 2022 - Now

Next.js, Laravel 8, Tailwind CSS, Headless UI, React Map GL, React

Query, React Hook Form, MySQL.

[Deployed app](#)

[Frontend GitHub](#)

[Backend GitHub](#)

[Video Demo](#)

A web application that suggests a route for an evening out given a set of parameters.

- Leverages react-map-gl to provide an interactive mapping interface to explore venues.
- Users can favourite venues, add ratings and leave reviews.
- A graph traversal algorithm is used to generate a set of suggested venues between a start and endpoint based on the user's selected venue attributes eg. Pool Table, Real Ale, Dog Friendly.
- The suggested venues can be saved as a plan and shared with friends.

## PROFESSIONAL

### SIMPLEWEB - SOFTWARE DEVELOPER

February 2022 - January 2022 (Company closed)

- Developed full stack solutions that met client requirements, primarily using React, Express JS, Next JS and Laravel.
- Participated in client meetings refining project requirements.
- Worked in small effective teams to plan, organise and scope weekly or bi-weekly sprints.
- Delivered projects using LEAN and AGILE methodologies.

### Key Projects

- Designed and implemented abstractions on top of decentralised platforms (Ethereum/Uniswap/AAVE). The tools created enabled multiple partner companies to create minimum viable products and raise money significantly faster.
  - Typescript/Next.js/Hardhat/Solidity/AssemblyScript/GraphQL/TheGraph/Wagmi

- Created a workspace/desk optimisation system for a university department, incorporating carbon usage as an incentive. Integrated as a browser extension, the tool received positive feedback from colleagues, who found it easier to locate appropriate desks and workspaces for their specific tasks.
  - Typescript/React/Plasmo Extension Framework/Laravel

- Implemented a colleague rewards system, where exceptional work was recognised with internal tokens via Slack reactions. These tokens could then be exchanged for various benefits within an internal shop. The system was successfully integrated into a venture capital company.
  - TypeScript/Next.js/Solidity/Express.js/SlackAPI/ShopifyAPI

## UNIVERSITY

### SHEFFIELD HALLAM - COMPUTER SCIENCE BSC - 2:1 69.4%

SEP 2018 - MAY 2021

- Implemented a performant web server using TCP/IP, web sockets and multithreaded design patterns.
  - C++
  - [GitHub](#)

- Developed an end-to-end machine learning pipeline using Twitter news sentiment to predict stock price movement.
  - Python/scikit-learn
  - [GitHub](#)

- Worked in a group of four developing a website for an energy company according to their requirements.
  - PHP/HTML/CSS/SQL/Javascript/XAMPP
  - [GitHub](#)

- Functional programming implementations of algorithms and data structures.
  - Clojure
  - [GitHub](#)

- Dissertation: Developed a suite of software instruments for music production.
  - C++/JUCE framework
  - Synth
  - Sampler

- Analysed and implemented fundamental algorithms and data structures, including pathfinding (A\*, Dijkstra's), stacks, queues, graphs, trees, hash maps, and arrays from scratch.

## EDUCATION

### SHEFFIELD HALLAM UNIVERSITY

### COMPUTER SCIENCE BSC 2:1 - 69.4%

SEP 2018 - MAY 2021

### North Bristol Post 16 - 3 A LEVELS

### REDLAND GREEN SCHOOL - 9 GCSES

SEP 2010 - JULY 2015

## INTERESTS

I enjoy art and culture, such as music, books, paintings, and graphic design. Lately, I've been using my free time to learn screen printing.

Outside of work, you can find me socialising, watching live music, skateboarding or working on my personal software projects.