Ira James Watt

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Education

Newcastle University - Computer Science with Industrial Placement BSc Honours (1.1)   **2016-2020**
Acted as lead developer in team project building an Android app. The app aimed to draw attention to pollution in the local area showcasing data from the Urban Observatory API. Active in with the OTC (Officer Training Core) linked to the university. Ran with and lead OTC running club on training sessions.

A level - Maths, Physics, creative media (C, C, Distinction)   **2014-2016**

AS - Electronics (C)   **2014-2015**

Smallpeice Trust - advanced marine technology course   **2014-2014**
Developed 3D models of offshore platforms using SketchUp as part of my team's proposal in which we came first overall.

Work Experience

Applications Developer Placement - NUIT   **2018-2019**
Worked to develop and deploy the Newcastle University mobile (Ionic Framework) and desktop apps (.NET). Lead developer on the University's new scanner attendance web services and surrounding infrastructure. Worked in collaboration with University partners, most notably on the Microsoft SLATE project. Within this project I developed applications for the Microsoft Teams platform requiring extensive use of Azure.

Cinema Host – Odeon   **2017-2018**
Helped in cinema operations by maintaining a safe and fun environment. Worked as part of a distributed team with strict deadlines. Communication with customers and team members was critical in the role.

Projects

WebGL Gallery – (React, WebGL)   **2020-Present**
React App to host my WebGL graphics whilst learning the API.

Algo2k - (PWA, Node.js, Python)   **2019-2020**
A trading strategy backtesting services developed as part of my dissertation. The PWA, hosted on Firebase, takes Python 'strategy' code uploading it to an Express.js server which runs performance test returning performance metrics back to the user.

Web Portfolio - (angular7, JQuery, Bootstrap, three.js, and Firebase)   **2019-2019**
Showcases all work to date, the PWA was developed with a multitude of libraries and hosted on Firebase. It was my first attempt at creating interactive and dynamic graphics for a browser, achieved with use of Three.js. Full version is available on desktop, a minimalist version on mobile.

Perceptron App – (ionic 3, p5js)   **2018-2018**
Simple App designed to demonstrate basic machine learning concepts using the p5js graphics library.

Relevant Coursework

System and Network Security, Distributed Systems, Website Construction and Management, Reliability and Fault Tolerance, Database Technology, Algorithm Design and Analysis, Biologically inspired Computing

Proficiencies

PHP, Python, Java, JavaScript, Typescript, C#, R, SQL, SCSS, HTML5, XML, P5js, Three.js, Angular7, Ionic3, Ionic4, WordPress, Apache, MySQL, Firebase, Android, Node.js, Microsoft Azure, WPF (.NET), JQuery, Bootstrap, PM2, Express.js