

# Sebastian Waring

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## Summary

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- Won the Software Architecture Award at Made in Brunel for creating a **Java** program that procedurally generates mazes that are then solved by the Finch Robot in the most efficient way.
- Developed a **MonoGame** 'Shoot 'em Up' for a University project utilising my self-taught **C#** skills.
- Designed and developed my own portfolio website in **HTML, CSS and JavaScript**, to exhibit all projects inside and outside of University.

## Education 2010 - 2019

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### University – Brunel, Uxbridge 2015 – 2019

First Class Honours: Computer Science BSc (Hons) with Professional Practice.

1<sup>st</sup> achieved in key modules: Digital Media and Games, Software Engineering, Artificial Intelligence, FYP.

### A level – St Dominic's, Harrow 2013 - 2015

3 A Levels including: Mathematics with Statistics and Mechanics (B), ICT (B), Design and Technology (D).

### GCSE – The Harefield Academy, Hillingdon 10 - 13

8 GCSE's at grade A-B, including Mathematics, English and Science.

## Relevant Employment History June 2017 - 2018

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### IT Support Analyst – Withersworldwide, St Pauls

A 1-year placement at Withers to offer support and provide technical assistance to the London office as well as internationally.

- Facilitated the move from 16 to 20 Old Bailey moving to an Agile working environment.
- Responsible for creating new virtual desktops for all London based arrivals ready for when they start, communicating with HR, Training and myself.
- Understood the necessity of a well implemented CAB, dealing with new issues after an update.
- Trained up my replacement to be capable of taking over my responsibilities for when I leave.
- Passed 3-day ITIL Service Management course.

## References - Available on request

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## Technical Projects

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**Final Year Project** – Developed software in Java that procedurally generates random perfect mazes that a robot can find the shortest path through.

- Presented the final project to people in industry, judges and fellow students, winning Made in Brunel Software Innovation "L3 Software Architecture Prize 2019".
- Researched and implemented many different algorithms for randomly generating perfect mazes as well as solving the maze.

Used in project: Java, Eclipse IDE, Finch Robot.

**Game Development** – Developed a Shoot em' Up in MonoGame for a 2-month coursework project.

- Built up my understanding on MonoGame a C# scripting language that utilises other .NET language.
- Implemented audio and outsourced the simplistic graphic design to improve the aesthetics and appeal of the game.

Used in project: MonoGame, XNA, .Net, Visual Studio.

**Android Development** – Developed and tested a Brunel Sports Calendar app in Android Studio.

- A group assignment requiring planning, managing and communicating in weekly group meetings.
- Designed the app in draw.io and Photoshop.
- Developed in Android Studio tested the compatibility with other Android devices.

Used in project: Android Studio, Java, Adobe Photoshop.

## Skills

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Languages: Java, C#, .Net, XNA, Prolog, HTML5, CSS

Software: Visual Studio, Android Studio, Eclipse, Unity

Design: Blender, Microsoft Office, Adobe CS5

## Interests and Achievements:

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**Football** – Organised a weekly 5-A-Side football for IT while at Withers. Since this was a success, became the Sports Rep for Brunel Esports Society and organised similar activities for a variety of sports.

**University Sports** – Trained in Brunel sports teams Football, MMA, as well as competing in 3 esports teams, Rainbow 6, CSGO and Overwatch where we played other Universities in National University Leagues.