

TOPHER WINWARD

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Education

The University of Sheffield

Graduating June 2016

Artificial Intelligence & Computer Science with employment experience BSc

- First class grade in 1st and 2nd years.

Experience

Rare Ltd. (Microsoft Studios) – <http://rare.co.uk> June 2014 –September 2015, **15 months**

Software Development Engineer [Intern, extended from 12 to 15 months]

- Wrote performant and highly stable multithreaded C++ code for Xbox One
- Working in small and large scrum-based engineering teams
- Code written in a behaviour driven, test-first, dependency injected manner
- **Sea of Thieves** – <http://seaofthieves.co.uk>
 - Refactored 3rd party audio engine integration in a test-friendly manner into Unreal 4
- **Rare Replay** – <http://www.xbox.com/en-US/games/rare-replay>
 - Responsible for Xbox One user authentication and all controller work
 - Ensured product met stringent Xbox Quality Requirements

Pzazz – <http://p-zazz.co.uk>

June 2012 – present, **3 years 4 months**

Database Engineer - <https://github.com/Pzazz/Zing>

- Sole developer on **Java / Tomcat** based web service
- Direct interaction with client and dozens of users to fix issues
- Uses a **Neo4j** graph database to resolve complex authentication requests
- Employing continuous integration via **Travis CI**, with 80% test coverage

Succeed Consultancy

Summer 2012, 2013, combined **5 months**

Junior Developer

- Developed **JavaScript + jQuery** plugins for internal website
- Used **d3.js** to display complex, nested data structures in graphs
- Interfaced with **MongoDB** via **Java**

Skills

Software Development

Professionally used

- Java, C++, JavaScript, SQL, Neo4j, Unreal 4, Git, Perforce, Continuous Integration, HTML5, CSS3, STL, Visual Studio

Personal experience with

- Meteor.js, Python, Rust, PHP, Pascal, Haskell

Soft Skills

- I work well both independently and in teams, as a team member or leader
- I'm comfortable giving presentations to large audiences

Projects and other

Is there space in the IC?! – <http://www.shefunipcs.info>

- Mobile-first site displaying recent data about free PCs at Sheffield University

EYH2014 Hubs Hub - <http://winwardo.co.uk/mini/eyh/>

- Gives information about students' groups during EYH2014 at Sheffield University

Won the 2014 NACUE Hackathon - <http://nacue.com/the-news/the-student-enterprise-conference-2014-2/>

- Spent 48 designing and building an app to crowd-source carpooling