

# Kurt Hodges

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07465413670

## EDUCATION

### **Aberystwyth University BSc(Hons.) Artificial Intelligence and Robotics (1st class), 2014 – 2017**

Degree topics include: Data Structures and Algorithms, Software Engineering, Agile Methodologies, Modelling Persistent Data, Machine Learning.

For my major project I designed an AI controller to play Ms. Pac-Man. The project had a large research focus, requiring me to understand and utilise Java libraries written by other researchers.

### **Solihull Sixth Form College 2012-2014**

A Levels: Mathematics B, Physics C, Computing C.

### **Ninestiles School 2007-2012**

9 GCSEs at grade A\*-C including Mathematics and English at grade A.

## TECHNICAL SKILLS

**Object-orientated programming:** I am proficient in Java, writing many Java programs for university assignments. I am familiar with object-orientated design principles and take pride in writing maintainable code. Creating games in my free time using Unity has helped improve my C# skills.

**Artificial intelligence:** I have working knowledge of a AI techniques from A\* search to genetic algorithms. Through developing a neural network based Ms. Pac-Man controller I have gained practical experience with machine learning.

**Software development:** I have experience with both plan driven and agile software development. As a team of 8 we created software from the analysis stage through to testing for a software development project. For my major project I have adopted a scrum based methodology.

**Database design:** For the modelling persistent data module I had to design a database following the relational model and implement it using SQL. I also have experience with SQL within my software development project as it was needed for communication between a Java client and a database.

## WORK EXPERIENCE

### **'Tell Us Now' and Data Analysis Team Support Assistant, Aberystwyth University, Summer 2016**

- Assisted the student feedback team 'Tell Us Now' in preparing for the new academic year.
- Processed data for the university wide database system ASTRA.
- I was required to manage my time efficiently to work on tasks for two different teams.

### **Crew Member, McDonald's, Aberystwyth, Summer 2015, Part-time 2015-2016**

- Worked as part of a team to cook and prepare customer orders.
- Maintained food hygiene and quality standards, keeping a clean kitchen and work station.
- Worked effectively under pressure during peak times in a fast pace work environment.

## FURTHER SKILLS

**Communication:** My work placement for the University developed my communication skills, requiring me to liaise with staff across a multi-departmental institute, as well as explain research to my team effectively.

**Teamwork:** At McDonalds I was working as part of a small team, working together to maintain the company's targets and standards. Group projects at university have allowed me to delegate roles and workload aiding in the efficiency of the group.

## INTERESTS & ACHIEVEMENTS

**Games development:** Over the past few years I have had a strong interest in games development and design. Recently I created an android mobile game 'Pudding Man' and released it onto the Google play app store. I also enjoy starting projects with my friends in Unity and Unreal, focusing on programming.

**Walking:** Living in a small coastal town during my time at university has given me opportunity to explore the welsh countryside. I enjoy walks with my friends discovering the rural landscape.

## REFERENCES

Available upon request.