

CALLUM GRANT TOLLEY

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Second Year MSci Computer Science University of Birmingham student. I am an enthusiastic programmer with experience working with C, C++, Python, JavaScript, PHP and Java. I have always had a passion for computing, starting when I was younger with modifying games to small personal projects.

Education

University of Birmingham 2015-2019

BSc Computer Science with an Industrial Year

Overall Year 1 Grade: First

Relevant first year module results:

- **Robot Programming (85%)** – I worked hard as part of a team. Earned 100% individual mark.
- **Introduction to Software Engineering (85%)** – Learned about Scrum, TDD and Agile software development.
- **Software Workshop I (85%)**

Howard of Effingham School 2008-2015

- A2 Maths, Physics, Further Maths, Computing – AABC
- GCSEs: 2A* in Maths and Graphics, 4As including Computing

Employment History

Waiter – The Talbot Inn, Surrey July – August 2016

- Worked in a high-pressure environment serving customers.
- Proven ability to interact professionally with customers

Coach – Papercourt Sailing Club, Surrey April 2015

- Responsible for organising fun and engaging sessions for young sailors.
- Achieved Powerboat Level 2 Certificate.
- Qualified as a RYA Dinghy Instructor.
- Passed First Aid course.

Sales Associate – Squires Garden Centre, Surrey
2014-2015

- Worked in a team to provide excellent customer service in a busy garden centre.
- Trained in customer relations and service.

Interests

- I am a member of Explorer Scouts and have been involved in organising many expeditions, the largest one so far to Austria with 60 people.

Key Skills

Languages: C, C++, Java, JavaScript, PHP, Python, SQL, OCaml, Haskell

Libraries: GTK+, SDL, OpenGL

Tools: Git, Bash, Apache, MySQL, Unity, AWS

Projects

Hack The Midlands Hackathon

First Place Prize – BR

github.com/trolleyman/HackTheMidlands

I worked with other developers to create an improvised virtual reality game using a Makey Makey, Google Cardboard, Unity and Android Studio. Users could design a game level on a PC and could play it on their phone. We won the first-place prize at the competition after presenting our demo.

Robot Programming

Working in a team of 6, we created a multi-robot warehouse system using Java and LeJOS. As integration manager, I had to ensure every person created their part of the robot system on time and to specification.

FlappyClone

github.com/trolleyman/FlappyClone

I was interested in JavaScript, so I created a game that mimicked Flappy Bird over the course of a week. The game has a global leaderboard accessed using PHP, and backed by a MySQL database. The site is hosted on an AWS server.

Portal

github.com/trolleyman/Portal2

As an experiment with OpenGL and GLFW, I created a 3D demo application that displays a scene with portals that can be looked through.

Equator

github.com/trolleyman/Equator

I created a graphical calculator to help me with my maths homework in my spare time, as I couldn't find a good calculator for my PC.