

# Harry Donovan

UNIVERSITY STUDENT · COMPUTING FOR GAMES

38 Beacon Road, Falmouth, TR11 2LT

☎ 07747 596 167 | ✉ [harry.bd11@gmail.com](mailto:harry.bd11@gmail.com) | 📷 [HDonovan96](#) | 🐦 [@AbyssalProduct2](#)

## Summary

Avid programmer with a strong knowledge of version control using Git, experience with multiple programming languages and an excitement for facing new, interesting challenges. I am a confident presenter who is comfortable leading a team and liaising between different disciplines. I am currently seeking a summer internship position in order to gain experience in the industry, as well as make strong contacts which I hope to utilize throughout my degree and upon graduation. My ideal position would be acting as a lead programmer supervising a team or as a project manager.

## Skills

- Proficient in C#
- Experience in C++, Matlab, Python, Pascal and Kerboscript with brief experience using OpenGL
- Management and organisation of a team
- A desire to help and teach others
- Responsive listener capable of taking a brief through to completion
- Experience with Windows and Linux including regular use of the command line

## Education

### Falmouth University

BSC COMPUTING FOR GAMES

*Falmouth, United Kingdom*

*Sept. 2019 - Current*

- Got a Chun Shin-II Scholarship which is given to promising students in CSE Dept.

## Programming Projects

### Snake

SNAKE PROJECT GITHUB LINK

*C++ OpenGL*

*July 2019*

- Programmed a game of snake including collision detection and random apple placement
- Included a display of the players score once they die
- Added the ability to reset to starting conditions after dying by pressing 'r'
- Use of dynamic arrays to provide no cap on the possible size of the snake
- Scaled movement speed with the length of the snake to increase the difficulty as the player did better

### Rocket Glider Analysis

ROCKET GLIDER GITHUB LINK

*C++*

*January 2019 - March 2019*

- Used an iterative method to find the best dimensions for a rocket powered glider from known boundaries
- V1.1 was optimisation and reduced the run time by 60%

### Auto-Pilot Script

AUTO-PILOT GITHUB LINK

*kOS*

*January 2019 - March 2019*

- Used OOP to create a script to take a rocket from the launch pad to a sub-orbital path
- Improved the script to automatically circularise the orbit once a sub-orbital trajectory is achieved

## Work Experience

## Presentation

### DevFest Seoul by Google Developer Group Korea

PRESENTER FOR <HOSTING WEB APPLICATION FOR FREE UTILIZING GITHUB, NETLIFY AND CLOUDFLARE>

*Seoul, S.Korea*

*Nov. 2017*

- Introduced the history of web technology and the JAM stack which is for the modern web application development.
- Introduced how to freely host the web application with high performance utilizing global CDN services.

### 6th CodeEngn (Reverse Engineering Conference)

PRESENTER FOR <DEFCON 20TH : THE WAY TO GO TO LAS VEGAS>

*Seoul, S.Korea*

*Jul. 2012*

- Introduced CTF(Capture the Flag) hacking competition and advanced techniques and strategy for CTF

## Program Committees

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- 2016 **Problem Writer**, 2016 CODEGATE Hacking Competition World Final  
2013 **Organizer & Co-director**, 1st POSTECH Hackathon

*S.Korea*

*S.Korea*

## Extracurricular Activity

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### PoApper (Developers' Network of POSTECH)

*Pohang, S.Korea*

CORE MEMBER & PRESIDENT AT 2013

*Jun. 2010 - Jun. 2017*

- Reformed the society focusing on software engineering and building network on and off campus.
- Proposed various marketing and network activities to raise awareness.

### PLUS (Laboratory for UNIX Security in POSTECH)

*Pohang, S.Korea*

MEMBER

*Sep. 2010 - Oct. 2011*

- Gained expertise in hacking & security areas, especially about internal of operating system based on UNIX and several exploit techniques.
- Participated on several hacking competition and won a good award.
- Conducted periodic security checks on overall IT system as a member of POSTECH CERT.
- Conducted penetration testing commissioned by national agency and corporation.