

Falmouth, Cornwall, United Kingdom

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Summary

I am an 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 have become a confident presenter who is comfortable with all aspects of teamwork, including leading a team and liaising between different disciplines on a team. I have previously implemented custom movement controllers, boids and behaviour trees, and planned and designed complex weapon systems. My ideal position would be a programming position with opportunities to progress to senior positions as I grow with experience, and as such I am very interested in opportunities to grow towards these roles.

Skills

- Languages: C#, C++, Latex
- Game Engines: Unity, Unreal Engine 4
- · Version Control: Git
- · Project Management: Agile, Scrum, Sprint Planning, Trello

Published Games

Yvaga Station - Team Lead & Programmer

Unity 2018.4 May 2020

SELF PUBLISHED TO ITCH.IO (HTTPS://DAYLUKE.ITCH.IO/YVAGA-STATION)

- Presented a concept pitch to in order to continue development past prototype stage
- Implemented asymmetric multiplayer game using PUN2 package for networking
- Designed and implemented a modular custom movement system to expand on the options available to the player
- The game has 272 downloads (as of February 2021) on itch.io

Programming Projects

Pacman Al Unity 2019.4.1

HTTPS://GITHUB.COM/HDONOVAN96/PACMANAI

December 2020 - January 2021

Unreal Engine 4.22.3 May 2020 - August 2020

- University project to implement behaviour trees for Pacman ghosts
- Designed and implemented three unique behaviors Scout, Guard, and Pursuit
- · Agents designed to work together Scout relays players position to other agents while avoiding conflict with the player
- · Implemented agent 'memory', so agents remember the position of pills and the player and act only on this info

· Designed code structure for complex weapon system with loot spawning, weapon modifications, and fire modes

• Systems designed to interface with a custom network designed by another programmer · Implemented majority of the systems, including setting up recoil so it could be driven by IK systems

Snake C++ OpenGL

HTTPS://GITHUB.COM/HDONOVAN96/SNAKE

Infinity - Battle Royal

July 2019

- Developed and implemented in OpenGL for C++
- · Programmed a game of snake including collision detection and random 'apple' placement
- · Displays players score upon death without the use of text as a challenge to see if the information could still be conveyed clearly
- Set up initial conditions so the game could be restarted with a single key press

Education

Falmouth University BSc Computing For Games

Falmouth, United Kingdom

Sept. 2019 - June 2022

· Worked with a multi-discipline team to bring several games through a full development cycle

- · Learned about and improved upon creating neat, maintainable code through commenting and UML diagrams
- Participated in modules including creating a custom physical controller and designing an audio generation tool
- · Received and responded to feedback from concept pitches, module evaluations and regular game progress reviews
- I am involved with a peer-assisted learning programme (PASS) designed to help teach new students vital problem solving skills
- I am also active with helping other students with general, programming, and version control questions outside of this role



Freelance Programmer and Designer

Falmouth, Cornwall

IQMINDWARE

- November 2020 January 2021
- Build and develop application from scratch based on a given brief
- Collate features from several previously developed applications
- Design new features with a focus on user retention

Senior Ambassador

Falmouth, Cornwall

June 2020 - Current

FXPLUS

- Increased responsibility for the smooth running of events
- Manages the distribution of Student Ambassadors during events
- Relied on to handle any complications or problems that arise during an event

Student Ambassador

Falmouth, Cornwall
October 2019 - June 2020

XPLUS

- Involved in the running of university events and open days
- · This includes discussing the course with potential students and leading group tours around the campus
- I have also spoken on an online Q&A panel as part of this role

Extracurricular Activity

Falmouth, United Kingdom

September 2020 - January 2021

PASS Leader
FALMOUTH UNIVERSITY

• Planned and lead regular Peer Assisted Support Scheme (PASS) sessions for first year students in our department

- · Sessions were student led, with us tailoring sessions around what students wished to cover
- Sessions focused on common problems and soft skills