

David Ogunlesi

07931844255 • London, UK

david.ogunlesi@yahoo.co.uk • <https://davidogunlesi.github.io/>

RELEVANT EDUCATION

University of Exeter | MSci Computer Science

Expected Grad. 2024

- Second-year **77.88%** overall grade.
- Third-year **71%** overall grade.

Relevant Modules:

- ECM3423 Computer Graphics - **100%** - (Python & OpenGL)
- ECM1400 Programming - **84%**
- ECM1414 Data Structures and Algorithms - **73%**
- ECM1400 Web Development - **78%**

RELEVANT DEGREE PROJECTS

Year 3 Dissertation Project

2023

- Expanded the **Sugarscape** model to include altruism, investigating its impact on an ageing population in Japan.

Computer Graphics OpenGL Jungle Scene

2022

University Project | **100%**

- Excelled in a personal project to create a jungle scene in **OpenGL**. Had to translate **C++** documentation to **Python** bindings.

Project Manager and Frontend developer for “Catpocalypse” Pokemon Go-inspired Web game

2022

University Project | **84%**

- Led project to build a web app with **ReactJS** and **Django**. **Project Manager** and main **Frontend developer**. I was also the main asset **Artist**.

“Boxify” Java File Compressor

2021

University Project | **90%**

- Built a File compressor with a **Swing** user interface in **Java** that uses multithreading to achieve optimal speeds on large files averaging **200-300kb/s**.

Python Crossword game

2020

University Project | **90%**

- Designed and developed a crossword game in python with dynamically embedded words which included support for shared letters

RELEVANT EXPERIENCE

Game Studio Director & Co-Founder

2020 - Present

PLASMARC LTD | London, UK

Founded a company to support the development of a **video game project** called “Containcorp” coded in the **Unity Engine** framework using **C#**. Future plan is to market and sell the game.

Key Accomplishments:

- Implemented A* **pathfinding algorithm** for NPC simulations with support for multi-floor pathing via the **Dijkstra algorithm**. **Room Detection** algorithms, **Fluid Dynamics simulations** using custom cellular automata model.
- Launched a small but growing **Discord** community with **70+ members** with a bi-weekly update blog.
- Developed a **responsive website** in 3 weeks to promote the game | <https://containcorpgame.com/>
- Acquired a **Steam page** <https://store.steampowered.com/app/2483140/Containcorp/>
- Earnt **£400+** revenue off Patreon page

RELEVANT PERSONAL PROJECTS

Promotional Website

2023

- Developed a *responsive website* in 3 weeks to promote a commercial game project | <https://containcorpgame.com/>.
- Developed with *React*.

Card Party Game Mobile App 2022 - Present

- Creating a *mobile app* for a card game I designed, using *React Native Javascript* framework for frontend and *Node-JS* and *Socket.IO* for backend hosted on *AWS*.

Python 3D OpenGL Engine 2021

- Creating a 3D engine using *Python* and *PyOpenGL*. Implements **ECS**, **LOD terrain** and **dynamic sound**.

Muser - Room-based Spotify Sharing web app 2022

- Creating a web app that allows users to share *Spotify music* using room codes. Developed in *ReactJS* and *Django...*

Commercial Video Game Project 2020 - Present

- Established a commercial simulation and management video game project with 2 friends using *C#* and *Unity Engine Framework*.
- Devised around constructing the facility, handling all logistics from electricity, plumbing and waste disposal to containing the inmates used as guinea pigs and the aforementioned anomalies.

C# Galaxy System Simulation 2019

- Simulated a **100+** star galaxy system with celestial bodies using *C#* and *Unity Engine Framework* implementing procedural generation of planetary systems with fully simulated orbits.
- Structured the system according to density wave theory, creating characteristic spiral arms with **100+** stars, and designing the orbit model using 3-dimensional rotation matrices on oblate spheroid equations.
- Solved methods to produce “realistic” planet surfaces using stacked noise functions.

OTHER PERSONAL PROJECTS

I Can Explain Card Game 2022

- Created a fully designed prototype for an adult card game with **500+** unique cards.

Mandelbulb Render in Blender 2019

- Produced and procedurally rendered a Mandelbulb volume in **Blender** using mathematical equations represented as graphical nodes.

OTHER EDUCATION

Saint Olaves Grammar School | A-Level Grad. 2020

- Physics - B | Biology - B | Math - B.
- *Co-President*, Film Society.

Saint Olaves Grammar School | GCSEs Grad. 2018

- Physics, English Language | **Grade 9 (A*+)**.
- Biology, Chemistry, History, Computer Science | **Grade 8 (A*)**.
- Math, English Literature, Art | **Grade 7 (A)**.

OTHER EXPERIENCE

Store Assistant 2018

Scope | London, UK

- Volunteered at a charity shop for **6 months** learning useful management and organization skills.

Architect Assistant 2017

Ansham Associates LTD | Folkstone, UK

- Presented a project to create software that monitors and models all data concerning a house.
- Met the deadline and software specification by cooperating with the boss throughout the **6 days**.
- Demonstrated brief documentation of 5 pages of research and development resulting in a commendation.

SKILLS

Git | Game Development | Java | Javascript | Python | C# | HTML & CSS | Javascript | PHP | React JS | Django | Adobe Creative Cloud | Video Editing | Blender | Graphic Design