Emil Sebastian Jino

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EDUCATION

University Of Bristol

MEng Computer Science

Bristol, UK

Sept. 2020 - July. 2024

Email: emil jino@hotmail.com

o Predicted First Class Honours:

Bishop Vaughan Sixth Form

Swansea, UK

Sept. 2018 - June. 2020

Maths(A*), Biology(A*) and Physics(A):

EXPERIENCE

A levels

University of Bristol

Bristol, UK

Graduate Teacher(Level 2)

Sept. 2023 - May. 2024

• Providing targeted academic support to a group of 5 students in a second-year course. Cover approximately 30% of the main course content in the supplemental teaching sessions, such as how to utilise **Github** for code management.

University of Bristol

Bristol, UK

Software Development Team Member

Sept. 2021 - April. 2022

- o Created a video connection system for Gromit sculptures across the city, as requested by the university.
- Enhanced front-end UI by dynamically resizing and customizing content based on window size through Javascript.
- Used **Github** to manage version control, track progress via a Kanban board, and resolve issues to improve code clarity.

JP Morgan Intern

London, UK

Markets Analyst

July. 2019 - August. 2019

• Secured one of 80 places at a 2-week internship in the Markets division. Completed project with a partner to present services to clients. Gained planning, analysis, and teamwork skills through this.

Programming Skills

- Languages: Python, Java, C#, C, C++, GO, JavaScript, HTML, CSS
- Technologies: AWS, Git, MS Suite, Unity
- \bullet Frameworks: React.js, NumPy, PyTorch, Pandas

PROJECTS

• VR-Games Project:

- Produced 'Marco Predatoro,' a mixed-reality game, integrating **two physical spaces** into one **VR** game environment, allowing interactions between game spaces, such as power-ups or attacks.
- Implemented body tracking from 2 synchronised Azure Kinect Cameras, with data networked across 3 systems (VR,Physical space and AR) using Photon PUN2
- Made custom models and 3D scenes/assets with custom shaders to improve viewer appeal.
- $\circ~$ Game designed in \mathbf{Unity} and $\mathbf{C}\#$ used for over 30 custom scripts.

• NFL Data Analysis:

- Analysed the offensive performance of NFL teams during the 2018-2023 seasons using over 4 Machine Learning techniques.
- Generated 10+ visualisations including graphs, play-simulations and heat-maps, to explore the success of the 4 main play types (running, passing, punting and field goals).

• 3D Graphics Renderer:

- o Created a 3D rendered image using C++, built from the ground up without existing frameworks except GLM and SDL2.
- o Program renders Cornell Box using techniques such as wireframe rendering, rasterising and ray tracing.

• Conway's Game of Life with Distributed System:

- o Co-developed Conway's Game of Life, using GO's goroutines to design a multi-threaded game implementation.
- Completed a distributed systems solution of the game, hosted on AWS, which allowed a 2.94x decrease in runtime compared
 to a serial implementation.