

Philip Taylor

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Profile

I enjoy creating things that other people can then enjoy themselves. While my main interests lie in game development and 3D graphics, I like to deploy logical thinking alongside creativity to produce any form of computer-based content that provides helpful tools, increased productivity or just entertainment.

Computing skills

Development

Languages: Python, C++, Java, HTML, (S)CSS, Javascript, SQL, Rust, R, C

Libraries: OpenGL, React, RabbitMQ

Operating systems: Windows, Linux

Other

Non-professional knowledge of Audio Production (Logic Pro), Image Editing (Photoshop), Video Editing (Vegas Movie Studio), 3D Modelling (Blender)

Education

2013-2017

University of Warwick,
Coventry

MEng Computer Science (First Class Honours):

- Fourth year: 75%

- Key modules: Data Mining, High-Performance Computing, Game Theory, Image & Video Analysis
- Included a group software project on generating music in MIDI format using deep learning (Python)

- Third year: 79%

- Key modules: Computer Graphics, Machine Learning, Mobile Robotics, Compiler Design
- Included an individual software project on real-time procedural generation and rendering of 3D landscapes (C++, OpenGL)

- Second year: 79%

- Key modules: Operating Systems and Computer Networks, Algorithms, Software Engineering, Artificial Intelligence

- First year: 80%

- Key modules: Programming, Design of Information Structures, Computer Organisation and Architecture, Web Development

A full list of modules and marks can be found in my HEAR (Higher Education Achievement Report) which I will provide upon request.

2006-2013

Coventry Blue Coat
Church of England
School and Music
College

A Levels:

Further Mathematics: A*, Mathematics: A*, Music Technology: A, Physics: A*

GCSEs:

Biology: A*, Chemistry: A*, English Language: A*, English Literature: A*, Food and Nutrition: B, German: A*, Graphics: A*, Mathematics: A*, Music: A*, Physics: A*, Religious Studies: A

Other:

- OCR National in IT: 2x Distinction (equivalent to A*, A at GCSE)

- Free Standing Mathematics Qualification in Additional Mathematics: A

Work Experience

September 2017-present
Remote

Full Stack Software Engineer at Moju Technology Limited

- Solo engineer in charge of full software infrastructure which provides a SaaS web application to paying customers
- Actively add new front-end features requested by customers
- Stack includes Flask, RabbitMQ, React, Redux, MongoDB, PostgreSQL and ElasticSearch, all of which I taught myself while working
- Created a high performance message-passing system to perform millions of web requests daily, necessary to keep our large database up-to-date

Volunteering

August 2014
Ricoh Arena, Coventry

Exhibition Crew Volunteer at Insomnia Gaming Festival 52 (2 days)

- Assisted game developers at Indie stall
- Welcomed hundreds of members of general public at venue entrance and helped with any queries
- Worked alongside other volunteers to run ongoing Minecraft tournaments
- Represented a large company (Multiplay UK)

January 2014 – April 2014
University of Warwick, Coventry

University Computing Society Gaming Officer

- Ran a weekly 12-hour gaming session with two other exec members
- Set up a number of consoles and computers for society members and supervised any equipment they brought themselves
- Organised a friendly tournament each week and encouraged everyone to take part

Interests

I spend a reasonable amount of time playing computer games, mostly Overwatch and DotA 2. Other games I have invested a lot of time in include Minecraft, Team Fortress 2 and Trackmania, all of which I have designed levels/maps for. When RollerCoaster Tycoon 3 was popular, I released several custom scenery packs i.e. simple 3D textured models that other people could import into their levels. I also spend time programming and am currently learning Rust and Unreal Engine.

I have taught myself to play the keyboard, guitar and drums and actively write or learn music in my free time. Producing an album is an ambition of mine. While at secondary school I took part in numerous concerts, and even though I left in 2013, I have returned three times for end of year charity shows.

I am a 4th kyu (orange belt) in Aikido and I attend classes weekly at a nearby club. Aikido is a broad martial art and it comes with a great deal of learning and problem solving, which makes it very enjoyable in a non-violent atmosphere.

References

References available on request.