

## Thomas Blaine

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### EDUCATION

#### SWANSEA UNIVERSITY

*BSc Computer Science (1<sup>st</sup> class with honours)*

2020 - 2023

- Key modules: Web Development, Mobile Development, Cryptography and IT Security, Database Systems, Big Data and Machine Learning, User Experience.

### SKILLS & TECHNICAL TOOLS

**Languages:** Java, Python, JavaScript, C#, PHP, SQL, Kotlin, HTML/CSS

**Technologies:** Git, React, Next.js, Unity, Laravel, Jupyter Notebook, MySQL, NumPy, Matplotlib, scikit-learn, TensorFlow, Android Studio, Adobe Photoshop.

### PROFESSIONAL EXPERIENCE

#### IBM, IX

*Work Experience*

July 2019

- Participated in developing a client newsletter and explored roles in UI/UX Design, Software Development, and Finance at IBM, gaining cross-functional insights and enhancing teamwork skills.
- Designed an outstanding webpage UI using Figma, recognized for innovation by the UI team leader, and implemented user experience methodologies including user mapping and storyboarding.

#### PRIME ACROBATICS

*Coaching Assistant*

2018-2021

- Provided leadership and offered guidance to the coaching team, resulting in improved team efficiency and a significant reduction in the workload of supervisory staff.

### PROJECTS

#### **AR Platform for Education** | Unity, Laravel

- Conducted extensive research and produced a literature review to identify the need for an AR system in secondary education, leading to the development of a custom-integrated AR solution using a Laravel web application and a Unity iOS app.
- Utilized Unity Game Engine and AR Foundation Framework, showcasing skills in C# programming, mobile and web development, focused on enhancing educational experiences.
- Demonstrated expertise in user experience design by conducting comprehensive usability studies and system testing.

#### **Museum Application** | Android

- Developed an Android app using Android Studio, Kotlin, and XML, adhering to Google's Material Design and accessibility standards.
- Integrated a multi-tier user system with Firebase for data storage, image retrieval, and user authentication, enhancing user interaction and functionality.
- Honed skills in user-centric design and data management, focusing on diverse user roles and interactive artefact display in an educational context.

#### **Blog Web Application** | Laravel

- Developed a Laravel blog app with custom PHP backend, featuring advanced database relationships, user authentication, and dynamic search capabilities, demonstrating proficiency in Database management, PHP, HTML, and CSS.
- Mastered complex database design and API integration in a multi-functional blogging platform, enhancing skills in backend development and user experience optimization.

#### **Personal Software Portfolio** | Next.js

- Developed a responsive, single-page software portfolio using Next.js, React, and Tailwind CSS, featuring custom animations and deployed on Vercel.
- Advanced skills in React, Next.js, and responsive design, with a focus on animation through Framer Motion and efficient deployment strategies.