

Rob Homewood

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STATEMENT

Senior Unity3D / C# / .NET Developer with 6+ years professional experience in product and application development. Notable clients include Marshmallow Laser Feast (exhibited at the Sundance Film Festival), The Ethereum Foundation, and (for 3Dctrl) Specsavers, BMW, Philip Morris, Guinness, ASOS, Salomon.

With a passion for harnessing real-time 3D technologies, creative expression, and leadership, I thrive in collaborative environments where diverse perspectives come together to drive innovation. C# and Unity3D form the core of my expertise, and I am driven by the opportunity to learn from others, share knowledge, and contribute to projects that challenge me to grow both technically and creatively.

SKILLS

C#, Unity3D, .NET 8, Git, Python, JavaScript, SQL, WebGL, Postman, API Integration, Neo4j, Async Programming, Multithreading, API Development, Networking, Teamwork, Public Speaking, Leadership, Production, Virtual Reality

EXPERIENCE

(project titles linked)

3Dctrl.com (Unity3D - Application)

2019 - 2025

- **Lead Unity Developer** for a scalable real-time 3D content production toolkit.
- Key Impacts:
 - Development and maintenance of core real-time software and git VCS.
 - Created a powerful render solution capable of outputting various formats.
 - Developed a bespoke git2libsharp based system to manage 450gb+ library.
 - Performance optimization throughout the product lifecycle.
 - Advising senior management on technology trends and strategy.
- Systems Developed:
 - Web-to-Unity communication API with React frontend.
 - Deterministic product-configuration variant management system.
 - Intuitive camera control systems for animation rendering.
 - AWS S3 hosted Addressables and render deployment.
 - Large scale content management and deployment pipelines.
 - Animation systems tailored for real-time environments.
 - Artist tool development to streamline production workflows.
 - UI systems for internal development use cases.
 - Adaptive performance systems for optimized resource use.
 - Bespoke rendering pipelines to accommodate client visualization needs.
 - Frontend Sketchfab integration.

	Sweet Dreams (Unity3D - Sundance Film Festival)	2018 - 2019
	<ul style="list-style-type: none"> • Sweet Dreams VR Narrative. Unity Developer - Marshmallow Laser Feast. 	
	Ethereum DevCon '18 (Unity3D - Artwork Installation)	2018
	<ul style="list-style-type: none"> • Ethereum Visualisation. Unity Developer. - Marshmallow Laser Feast. 	
EDUCATION	PhD Intelligent Games and Games Intelligence (Incomplete)	2015 - 2022
	Goldsmiths, University of London, UK (primary institution)	
	<ul style="list-style-type: none"> • Procedurally personalised game content and aesthetics 	
	Msc (Informatics), Serious Games (Incomplete)	2014 - 2015
	Högskolan i Skövde, Sweden	
	<ul style="list-style-type: none"> • Applied Knowledge Space Theory for personalised learning in games 	
	BA (Distinction), Game Design & Production Management	2010 - 2013
	University of Abertay, Dundee, UK (primary institution)	
	- George Mason University, VA, USA	
PROJECTS	Film / Music Videos (Chemically Sinister Productions)	2019 - 2024
	- Voodooonaut - Feature Film. Associate Producer, Audio Mixing	
	- Strike Up The Band - Colossus. Video editing, Co-producer, Performer	
	- Our Blood - Stash Magnetic. VFX & Compositing, Creative Consultancy.	
	- Dark Days - Coldin Berlin. Camera operation, VFX, Creative development.	
	- The Power - Coldin Berlin. Lighting, VFX, Creative development.	
	Wordpress REST Migrator (Python - PC - Tool)	2018
	<ul style="list-style-type: none"> • Tool for migrating Wordpress sites via REST api. Open source solo project. 	
	Colossus (Band)	2004 - Present
	<ul style="list-style-type: none"> • Punk-blues band. Bassist, Backing vocalist, Co-writer. 	
PUBLICATIONS	Research Article: Billing, E., 2020. The DREAM Dataset: Supporting a data-driven study of autism spectrum disorder and robot enhanced therapy. Available Online.	
	EU Deliverable: Billing, E., 2017. D3.4.3 System Integration Progress Report. DREAM - Development of Robot-enhanced Therapy for Children with Autism Spectrum Disorders. Available Online.	
PUBLIC SPEAKING	Creating VR/AR game content with Unity3D	2018
	Digital Economy Network Summer School, Bournemouth, UK	
	Personalising Game Aesthetics with Social Network Data	2018
	Digital Economy Network Annual Meeting, Digital Catapult, UK	
	Digital Games as a Career Path	2017
	ADMI (African Digital Media Institute), Nairobi, Kenya	
	Approaches to Personalised Aesthetics	2017
	Falmouth University, UK	
	Between: Project description	2015
	Intel Buzz, Impact Hub London, UK	