Rob Homewood

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STATEMENT	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	Programming: C#, Unity3D, Python, C++, JavaScript, WebGL, Web Development Experience: Programming, Leadership, Teamwork, Public Speaking, Production, VR Interests: Music Performance, Film Making, Tech/Business History, Economics		
EXPERIENCE (project titles linked)	 3Dctrl.com (Unity3D - Application) Senior Developer for a scalable real-time 3D content production toolkit. Key Impacts: Development and maintenance of core real-time software systems. Created a powerful renderg solution capable of outputting various formats. Developed a bespoke git2libsharp based system to manage 450gb+ library. Implemented Addressables content build pipeline to improve scalability. Performance optimization throughout the product lifecycle. 		
	 Advising senior management on technology trends and strategy. 		
	 Systems Developed: Deterministic product-configurator variant management system. Intuitive camera control systems for animation rendering. Rendering optimizations and improvements. Content management and deployment pipelines. Web-to-Unity communication API. 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• Sweet Dreams VR Narrative. Programmer - Marshmallow Laser Feast.		
	Ethereum DevCon '18 (Unity3D - Artwork Installation)2018• Ethereum Visualisation. Programmer Marshmallow Laser Feast.		

EDUCATION	 PhD Intelligent Games and Games Intelligence (Incomplete) Goldsmiths, University of London, UK (primary institution) University of York, UK Queen Mary, University of London, UK University of Essex, UK Procedurally personalised game content and aesthetics 	2015 - 2022
	 Msc (Informatics), Serious Games (Incomplete) Högskolan i Skövde, Sweden Applied Knowledge Space Theory for personalised learning in game 	2014 - 2015 mes
	BA (Distinction), Game Design & Production Management University of Abertay, Dundee, UK (primary institution) - George Mason University, VA, USA	2010 - 2013
PROJECTS	 Film / Music Videos (Chemically Sinister Productions) Voodoonaut - Feature Film. Associate Producer, Audio Mixing Strike Up The Band - Colossus. Video editing, Co-producer, Performe Our Blood - Stash Magnetic. VFX & Compositing, Creative Consultant Dark Days - Coldin Berlin. Camera operation, VFX, Creative development The Power - Coldin Berlin. Lighting, VFX, Creative development. 	cy.
	 Wordpress REST Migrator (Python - PC - Tool) Tool for migrating Wordpress sites via REST api. Open source solutions 	2018 o project.
	 Colossus (Band) Punk-blues band. Bassist, Backing vocalist, Co-writer. 	004 - Present
PUBLICATIONS	Research Article : Billing, E., 2020. The DREAM Dataset: Supporting a data-dr study of autism spectrum disorder and robot enhanced therapy. Available Online	
	EU Deliverable : Billing, E., 2017. D3.4.3 System Integration Progress Re - Development of Robot-enhanced Therapy for Children with Autism S orders. Available Online.	
PUBLIC SPEAKING	Creating VR/AR game content with Unity3D Digital Economy Network Summer School, Bournemouth, UK	2018
	Personalising Game Aesthetics with Social Network Data Digital Economy Network Annual Meeting, Digital Catapult, UK	2018
	Digital Games as a Career Path ADMI(African Digital Media Institute), Nairobi, Kenya	2017
	Approaches to Personalised Aesthetics Falmouth University, UK	2017
	Between: Project description Intel Buzz, Impact Hub London, UK	2015
	Artists Panel ICIDS Copenhagen, Denmark	2015