github.com/Jiyambi/Portfolio | 07936 434640 | sarah.ann.herzog@gmail.com

Well-rounded post-graduate student seeking an entry level position as a game programmer.



Skills

Programming

- ◆ Languages: C++, Java, C#, JavaScript, Action Script 3, Lua.
- Confident with various data structures, algorithms, design patterns.
- AI techniques: pattern movement, finite state machines, fuzzy logic, genetic algorithms.

Development Tools

- ◆ IDEs, compilers, debuggers: Visual Studio, Eclipse, g++, gdb, Valgrind.
- Version control: SVN, Git, GitHub.com.
- Game libraries and engines: Allegro, DirectX, XNA, Flat Red Ball, Unity, Havok.

Teamwork and Leadership

- Programmed in game development teams at Abertay University and in the Scottish Game Jam.
- Currently leading a team to develop a mobile game as part of the Abertay Game Development Society.
- At wow-pro.com, led a small international development team of volunteers.
- Was part of a team which created several tools to improve the Intel smart TV quality assurance process.
- Participated in various university group projects, both as a leader and team member.

Communication

- Experienced in relating technical knowledge to non-technical audiences, both as writing and in presentations.
- Authored official report for a National Science Foundation educational grant.
- Taught after school science classes for primary school children.
- Wrote, recorded, and voiced an informational video advertising the wow-pro.com addon.
- Maintain a blog covering a wide array of gaming industry subjects at jiyambi.blogspot.com.

Projects

Racing Game Fuzzy Logic Controller Tuned With Genetic Algorithms

Web location: https://github.com/Jiyambi/Portfolio/wiki/Fuzzy-Logic-Controller-with-Genetic-Algorithms This JavaScript and HTML5 project demonstrates the use of a fuzzy inference system to control a car in a racing game. It allows full customisation of the controller settings, including membership functions and rules. The final section of the application explores the tuning of a fuzzy controller using genetic algorithms.

DirectX Sample Scene – Solar System Exploration

Web location: https://github.com/Jiyambi/Portfolio/wiki/DirectX-Sample-Scene---Solar-System-Exploration This C++ project demonstrates familiarity with various features of DirectX 11. It simulates a solar system with various spheres orbiting about the sun. The scene showcases 3D models, 2D overlays, in-scene point lighting, a particle system, skybox, text FPS and CPU usage display, Direct Input camera controls, and Direct Sound music and sound effects.

Denizen Pop - Game for the 2013 Scottish Game Jam

Web location: https://github.com/Jiyambi/Portfolio/wiki/Game-Jam:-Denizen-Pop This Unity and C# game is a 2D infinite runner style game referencing recent issues with horse meat in burgers. The game was created in 48 hours with a team of three.







SARAH HERZOG

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Work	07/2011 - 08/2012	Quality Assurance Intern	Intel, Hillsboro OR, USA		
	Member of the gu	ality assurance team responsible for test	ting the Intel smart TV Flash plugir	n. Basic	
	responsibilities included device set up, test operation, and results reporting. Trained new employees. Developed multiple tools to streamline the QA process and improve team efficiency. Team efforts resulted in official Adobe certification for the Intel smart TV platform.				
	Official Adobe cert	incation for the litter smart TV platform.			
	04/2010 12/2010	I I and Address December 2			
	04/2010 – 12/2010	Lead Addon Developer	www.wow-pro.com, Internatio		
		globe-spanning team of volunteers in th	•		
		w-pro.com strategy guides directly into			
	based interpreter,	as well as a companion guide recording	addon, to allow non-experts to cr	eate content.	
	Resulting addon w	as massively popular, with over 200,000	downloads to date. The product v	was	
	recommended by	several high profile websites within the	WoW community, including WoW	Insider	
	(wow.joystiq.com).	(wow.joystiq.com).			
	01/2010 - 09/2010	Science Instructor	Mad Science, Seattle WA, USA	L	
	06/2008 - 12/2008	Engineering R&D Intern	ATI Wah Chang, Albany OR, U	SA	
	09/2007 - 06/2008	Engineering Education Research	OSU Chemical Engineering, US	SA	
	04/2007 - 09/2007	Facilities Engineering Intern	ON Semiconductor, Gresham	OR, USA	
	07/2006 - 11/2007	Computer Technician	OSU Technology Support Serv	rices, USA	
	Previous career resulted in many valuable life experiences. Provided huge benefits to previous employers, including the addition of a new stage to the production process at Wah Chang, and the implementation of a piping change saving ON Semiconductor \$10,000 yearly. Gained familiarity with high responsibility situations, such as handling hazardous chemicals and operating powerful machinery. Gained experience				
presenting results, troubleshooting, and providing customer service.					
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Education	University of Abertay	Iniversity of Abertay 2014 – MSc Computer Games Technology – <i>In Progress, Feb. 2014 Gra<mark>duation</mark></i>			
	Dissertation in the field of artificial intelligence				
	Dissertation in the	2 is a factor in the field of the mount into my since			
	Portland State University, USA, 2012 – Computer Science Advanced Degree Preparation Additional Coursework in Visual Design and Music				
	Oregon State University, USA, 2009 – BSc Chemical Engineering, <i>Cum Laude</i>				
	Additional Coursework in Business Law, Marketing, and Entrepreneurship				
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Awards	Scottish Saltire Scholarship - £2,000, awarded to 200 international students to study in Scotland.				
	Abertay Academic Excellence Award - £3,000, awarded to those who have academic merit significantly above				
	the normal requirement for the chosen degree program.				
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Keferences	Academic				
	Dr. David King, d.king@abertay.ac.uk, Director of Academic Programmes, SECAM, Abertay Uni <mark>ve</mark> rsity				
	Professional	Professional			
	Mr. Charley Faivre, faivre.charley@gmail.com, Owner and Administrator of wow-pro.com Mr. Christopher Sauvageau, christopher.sauvageau@intel.com, QA Manager, Intel				
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