Joseph Howes

1705 Honey Creek Lane Cedar Park, TX 78613 Phone: (512)578-5930 Email: joeh@foldingrain.com Web: josephhowes.com GitHub: github.com/Rjak

QUALIFICATIONS	 25 years total professional programming and creative experience in business and the arts. Very experienced in C/C++ and Java with experience in dozens of other compiled, interpreted and scripting languages.
	 □ Combined 16 years experience with web development (Javascript, jQuery, Python, Django, AJAX, PHP, J2EE, servlets, JSPs, CGIs, HTML, MySQL, PostgreSQL, SQLite, etc.). □ Self-published an iOS app called Woodshed Supermetronome, now available on the iTunes App Store. □ 3 years video game industry experience. □ Shipped software for Windows, xbox 360, iOS and several Unix flavours. □ 11 years of network & multithread coding experience including real-time frame synchronous
	distributed simulation over UDP. 2 years experience with OpenGL and Java3D (1 professionally).
PROFESSIONAL EXPERIENCE	President / Technical & Production Lead Folding Rain July 2000 – Present At Folding Rain, I have built tools and created content for a wide variety of clients. Following are highlight projects:
	 EXTERNAL CLIENT: Cosmos: A SpaceTime Odyssey (Dec 2013 – Jan 2014) Programmer, animator, molecular modeler, camera control, lighting. Responsible for hand and Python-based procedural animation, through Blender, describing the difference between organic and inorganic molecules. Segment appears in episode 6: "Deeper, Deeper, Deeper Still".
	EXTERNAL CLIENT: ROLLOUT (Jan 2012 – Present, Remote)
	☐ Implementation of portfolio and e-commerce websites in Python/Django , static HTML , and a BigCartel customization.
	☐ Created many custom view components using jQuery and CSS , including a dynamic slideshow piece and meta navigation across all web properites (http://rollout.ca).
	INTERNAL PROJECT: Woodshed Supermetronome iPhone App (2011-2014)
	☐ Click-track building tool for musicians, now available on the app store.
	 Responsible for the concept, design, coding, graphics, animation, testing, and marketing. Language: Objective-C.
	☐ Tools: Photoshop, Xcode, Instruments.
	☐ A metronome app requires zero latency sound so a simple sleep loop was not sufficient. Explicitly populated output buffers with PCM data using a Remote I/O unit and my own caching.
	EXTERNAL CLIENT: El Fresko Technologies (2008 – Present, Remote)
	☐ Programmer, interface design/implementation, technical writer and VP Marketing for the
	MagnaStor(tm) product which is a magnetic WORM filesystem for Windows and Unix.
	Observed strict kernel normal form coding standards, zero error tolerance, and perfect code. We never missed a milestone or a deadline and working overtime and on weekends almost never occurred because of our strict standards enforcement.
	 Implemented both kernel and userland systems, including backup, restore, and fsck utilities. Implemented web-based (AJAX + JSON) and Java app admin GUIs.
	Assisted in the specification and implementation of the MOH programming language .
	☐ Wrote an embedded web server .

	EXTERNAL CLIENT:	The Edge Cinematography (20)	04-2006, Calgary, AB)	
	☐ Lead editor, compositor and animator on projects for Shell, UFA, CTV, Critical Mass, and			
	many others. Daily tools included Avid XPress Pro HD, Adobe AfterEffects, Sony Vegas, Pro Tools LE,			
	Maya, Avid 3D, Avid FX, Primatte 3.			
	☐ Used programming skills to admin client staging areas for evaluation video.			
		he office LAN, and set up ad-hoc DNS f	or the IP-aware Sony XDCam	
	equipment. ☐ Represented the po	est-production end of the business to clie	ents. and worked constantly with	
	clients on their proje		,	
		StoryLoom (2004 - 2006)		
	 Completely designed and developed StoryLoom footage logging system for the film and television industries. 			
	Chiefly a Java imple (Windows).	ementation with SWT UI and native cap	ture written in DirectShow (C++)	
	Backing database was PostgreSQL for the web version and Hypersonic for the ship application.			
Represented the technical vision of the company to investors.				
	Installer was implen for Windows.	nented using Install4j to continue with t	he native look-and-feel requirement	
	☐ Design always focu	sed on re-use and building the corporate	e library of tools and frameworks.	
	Programmer			
	Petroglyph	Las Vegas, NV, USA	Aug 2006 – May 2008	
	_	niverse at War: Earth Assault for Game		
		or code development, Visual .NET for to le for GUI, multiplayer and Xbox/GFW		
	matching and achie		LIVE leatures such as chat ,	
	Programmer			
	Electronic Arts	3	May 1999 – Jun 2000	
	"World Domination	prototype, ladder storage, web view, an n Tour" massively multiplayer meta-gll components were AWT, while shippin	game for the PC gaming hit Tiberian	
		od Online pieces for Tiberian Sun , Fire r Dune .	estorm, Nox, Red Alert 2, and	
	Co-Founder / F	Programmer		
	Game Doctor	Calgary, AB, Canada	Dec 1991 – Nov 1993	
		ration utility in C++ . Idea was eventuall version called <i>Game Runner</i> .	ly adopted by Quarterdeck who	
		used in the PC Gamer Testing Lab for a 95 (which ameliorated the need for mer		
EDUCATION	B.Sc. Compute	er Science		
	University of Calgary	y Calgary, AB, Canada	Graduated May 2000	
INTERESTS	Professional actor, editor, CG animator and filmmaker. Professional musician, aspiring actor. I love cycling, swimming, cooking, and games.			
DESIRED SALARY	Salaried Employmer	nt ::	\$120,000 - \$130,000 \$80 / hour	