RESUME

DANIELA HASENBRING

2206-455 BEACH CRESCENT VANCOUVER, BC, V6Z 3E5 CANADA

+1 (778) 995-7025

DANIELA@KOSHIGAYA.DE http://www.koshigaya.de

Expertise

- In-depth C/C++ experience (20 years) including plug-in development for Maya, Katana, Nuke and more.
- Expert in Realtime Rendering using OpenGL, Vulkan and Metal since OpenGL 1.2.
- Experienced in GPU Acceleration (e.g. OpenCL, CUDA), CPU Intrinsics and Multithreading.
- Excellent knowledge in Maya API (14 years) and many other APIs.
- Great ability to design and build pretty and intuitive User Interfaces for a great User Experience.
- In-depth knowledge of most commonly used Image Formats.
- Shader writing for MentalRay (1 year), Vray (2 years) and GLSL (10 years).
- Scripting in Python (12 years), MEL (6 years) and PHP (10 years).
- Cross platform development for Windows, macOS, Linux and iOS.
- Experienced in R&D and strong at "Problem Solving".
- · Great Team Player with excellent communication skills, able to meet challenging deadlines.
- Excellent in working closely with artists, understanding their problems and fulfilling their needs.
- Operator experience in Maya (16 years), Nuke (4 years) and Photoshop (10 years).
- · Strong in web design with HTML5, Java Script, CSS with a WSGI backend (>10 years).

Achievements

- Received the Sony Outstanding Engineer Award, the highest form of individual recognition for Sony Group engineers, in 2020.
- Developed Sony Pictures Imageworks' next-generation in-house Hair and Fur Grooming software Fyber. Used as primary grooming tool by many artists on all live-action and animated shows since 2020.
- Developed Sony Pictures Imageworks' in-house software Sprout, a Maya plug-in for efficient creation, manipulation and rendering of large scale environments.
- Presented Sprout at Siggraph 2017 ("Interactive Environment Creation with Sprout") and Fyber at Siggraph 2021 ("Hair Grooming with Imageworks' Fyber", also available on YouTube).
- Developed a complex pipeline with software bindings (e.g. Nuke) used by Scanline VFX in all steps of production like I/O, Compositing, Simulation, Rendering, HR and Management - greatly improving their workflows.
- Developed a plug-in for Nuke which allows compositors to completely relight a scene by adding and tweaking common lightsources known from 3D packages like Maya in post production without having to re-render the scene in 2008.
- Created a short film using Motion Capturing doing all the necessary production steps like directing the actress, editing and cleaning the data using "Motion Analysis EVaRT" and "Autodesk Motion Builder".
- Developed an around 2006 widely used Script Suite for Maya including tools for Modeling, Rigging, Animation and Rendering known as the "Koshigaya Script Suite".

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Work experience

Since	Client / Company NVIDIA Corporation	Position / Project Senior Software Engineer, IC5
April 2022	Vancouver, Canada	Omniverse
_	Sony Pictures Imageworks Vancouver, Canada	Principal Software Engineer Developed Fyber (see "Achievements"), a standalone hair and fur grooming software with plug-ins for Maya, Katana and Houdini.
	Sony Pictures Imageworks Vancouver, Canada	 Senior Software Engineer Developed Sprout (see "Achievements") and many other Maya plugins, e.g.: Playblast with support for deformation motion blur. Custom texture projection shader with support for shadowing. Texture blending shader with a custom tool to efficiently paint vertex masks on very high resolution geometry. and many more:)
August 2013 - September 2014	Topalsson Munich, Germany	Senior Software Engineer • Development of a car-configurator in Unreal Engine 4 and Unigine.
November 2011 - August 2013	Scanline VFX Munich, Germany	Senior Software/Pipeline Engineer Several feature and tv movies [NDA] Development and Maintenance on the new production pipeline. Writing of Vray shaders and 3ds Max plugins. Development of Nuke effect plugins.
June 2011 - November 2011	Dr. D Studios Sydney, Australia	Motion Capture Pipeline TD Happy Feet 2 [feature] General pipeline development for animation and moedit. Development of Tools for Shotgun and Tank.

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Work experience (continued)

May 2009

- June 2011

Client / Company

Scanline VFX Munich, Germany Position / Project

Senior Software/Pipeline Engineer Several feature and tv movies [NDA]

- Development of a new production pipeline, replacing the old one.
- · Writing of Vray shaders and 3ds Max plugins.
- · Development of Nuke effect plugins.

February 2009 Parasol Island GmbH
- April 2009 Düsseldorf, Germany

Software/Pipeline Engineer, Rigging TD

Audi R8 [commercial]

2012 [feature]

- Development of a complex Car-Setup.
- Developed and introduced an OpenEXR pipeline.

May 2008 PIXOMONDO IMAGES
- December 2008 Ludwigsburg, Germany

Software/Pipeline Engineer Ninja Asassin [feature]

- Development of the production pipeline.
- Writing of 3ds Max plugins used for crowd caching.

March 2008 Cine plus vision GmbH - April 2008 Ludwigsburg, Germany Software/Pipeline Engineer, Effects TD

Prisoners of the Sun [feature]

- Fluid simulations of smoke and dust.
- Development of an OpenEXR pipeline.

January 2007 Elektrofilm - February 2008 Stuttgart, Germany Software/Pipeline Engineer, Effects TD Armageddon - The longest night [tv] Hafen der Hoffnung - Die letzte Fahrt der W. Gustloff [tv] Lamborghini [commercial]

- Fluid simulations for Fire, Smoke and Water.
- Development of tools to shatter windows.
- Development of a crowd tool for Maya.
- Development of a pipeline for fast interaction between Maya and Fusion.

September 2006 Berliner Film Company
- November 2006 Berlin, Germany

Cloth TD / Effects TD Happily N'Ever After [feature]

- Cloth simulation for the main characters.
- Fluid simulations for Smoke and Dust.

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Education

September 2003 The German Film School German diplom (equiv. to masters) as "Digital Artist"

- September 2006 Berlin (Elstal), Germany

September 1999 Max-Eyth Gymnasium Abitur (HSC)

- August 2002 Kassel, Germany

Knowledge & Skills

Software Maya, Katana, Photoshop, Nuke, 3ds Max, Shake, After Effects
Coding Languages C++, Python, Java Script, Objective C, Java, Delphi, C#, PHP, MEL

Software APIs Maya, Katana, Nuke, Shake, 3ds Max, Vray, MentalRay

Technologies OpenGL, Vulkan, Metal, Qt, HTML5, OpenCL, OpenAL, OpenEXR, Cocoa/Touch

Languages German (native), English (fluent)

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