Mark Jarzynski

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Education

Ph.D. (in progress) Computer Science; University of Maryland, Baltimore County present B.S. Computer Science; University of Maryland, Baltimore County 2011

Work Experience

Technical Director 2014 - present

University of Maryland Baltimore County, Imaging Research Center

- Supervised, led, and educated teams of students and staff on research projects.
- Lead Developer on research projects, which often involve combinations of the following:
 - o VR, AR, MR
 - Unreal Engine / Unity
 - o 3D Scanning / Photogrammetry
 - Motion Tracking / Motion Capture
 - Data Visualization and Procedural Generation
 - o Parallel Computing
- Maintained department's infrastructure, servers, desktops.

Systems Administrator & Programmer

2011 - 2014

University of Maryland Baltimore County, Imaging Research Center

- Developed and maintained mission critical software to meet research needs.
- Worked with students to ensure researcher needs were being met.
- Maintained department's infrastructure, servers, desktops.

UNIX Administrator & Web Developer

2010 - 2011

University of Maryland Baltimore County, Computer Science & Electrical Engineering

- Maintained CSEE linux desktops and servers across classroom labs and TA rooms.
- Designed and developed department's website.
- Kept up to date documentation on methods and processes.

Programmer 2008 - 2010

Zeroed-In Technologies LLC

- Developed and maintained multiple websites in Php and ColdFusion
- Met with clients and scoped out their needs. Estimated time and costs.

Technical Skills

Languages: C, C++, C#, Python, Java, Php, HTML, CSS, Javascript, HLSL, GLSL

Graphics APIs: DirectX, OpenGL
Game Engines: Unreal Engine, Unity
Operating Systems: Linux, macOS, Windows

Databases: MariaDB, MySQL, MSSQL, Postgres, Oracle

Software: Visual Studios, XCode, CMake, Makefiles, GCC, LLVM, Git, Subversion, CVS,

Mercurial, Apache, NGINX, Docker

Publications

Mark Jarzynski and Marc Olano, Hash Functions for GPU Rendering, *Journal of Computer Graphics Techniques (JCGT)*, vol. 9, no. 3, 21-38, 2020

Available online http://jcgt.org/published/0009/03/02/

Mark Murnane, Don Engel, Stephen Freeland, Lee Boot, Mark Jarzynski, Katrine Lindvig, Line Hillersdal, and David Earle. 2020. Extending CoNavigator into a Collaborative Digital Space. *In Companion of the 2020 ACM International Conference on Supporting Group Work (GROUP '20)*. Association for Computing Machinery, New York, NY, USA, 127–130.

DOI: https://doi.org/10.1145/3323994.3369890

Awards

Eagle Scout. Boy Scouts of America. Troop 447.