Michael J. Sherman msherman at stealthboy.com 703.772.0147

GOAL

To expand my knowledge base and apply my expertise in the field of computer science for product development, simulation, or algorithm research purposes.

EDUCATION

- Bachelor of Science, Computer Science, Carnegie Mellon University, 1998
- Bachelor of Science, Physics, Carnegie Mellon University, 1998

CLEARANCE

• Secret clearance held since 1996

EMPLOYMENT EXPERIENCE

- Digital Sandbox, Inc. (December 1998 to present) Vice President, Research and Development
 - Leading Mobile platform development for iOS devices
 - Lead design and development effort of the Risk Operations Center framework
 - LeveragedSharePoint and Silverlight technologies for analysis reporting and visualization
 - Directed product development in the Advanced Products Group
 - Senior developer on the ASP.NET Site Profiler and Risk Analysis Center (RAC) web applications
 - Senior developer on the Site $\mathrm{Profiler}^{TM}$ risk management tool and enterprise Information Management System
 - Architect and lead developer of SOAP-based data synchronization tool (connects UNIX server product and client tools)
 - Lead developer and project leader for web-based distance learning delivery, authoring, and management software using PHP and MySQL; trained over half of a million users in one year (three million to date) (at-awareness.org)
 - Developed applications for the Palm Computing platform, including an implementation of the OpenGL graphics library for the Palm OS (miniGL)
 - Developed 3D simulation viewer and scenario editing software for a PC-based anti-terrorism planning tool using the OpenGL graphics API
 - Founding employee
- 7b5 Labs, Inc. (March 2009 to present) Co-founder
 - Developed XPilot for the iPhone
- Sonalysts, Inc. (June 1998 to June 1999)
 - Computer graphics programming in OpenGL for 3D gaming applications
 - Real-time computational fluid dynamics research in the area of smoke propagation and volumetric rendering
- Logicon, Inc. (May 1997 to November 1997)
 - Developed OpenGL and X application for real-time smoke device simulation on a Silicon Graphics Onyx workstation
- Camber Corporation (Summer 1995 to May 1997)
 - Web authoring with Java, HTML 3.0, VRML 2.0
 - Assisted in Government field tests at Ft. AP Hill, VA and Ft. Huachuca, AZ.
 - Wrote and published Government technical reports on thermodynamic behavior of land mines
 - Obtained Secret clearance

- Carnegie Mellon University School of Computer Science (Spring 1995)
 - Developed an X program for person recognition for intelligent video conferencing software

TECHNICAL EXPERIENCE

- Software Development
 - Fluent in C++, C, PHP, C#, Objective C, JavaScript; heavy use of Perl, Java, Lisp, ML, Prolog and Pascal
 - Web Services development (SOAP, XML-RPC, .NET)
 - iOS development using XCode
 - Web Application development (PHP, ASP .NET 2.0)
 - MySQL (SQL) and Oracle database APIs
 - Development with gcc compiler and CVS under Linux
 - Development with Microsoft Visual Studio and Visual Source Safe under Windows
 - GUI packages including XUL, Motif, GTK, FLTK, and MFC
 - Palm^{TM} mobile computing platform (C)
- Computer Graphics
 - Programming with the OpenGL 3D graphics API since 1994
 - Wrote several real-time 3D graphics engines for both the Windows and IRIX/Linux platforms using <code>OpenGL</code>
 - Wrote a file format reader for translation of 3D Studio MAX models into custom engine polygon storage structure
 - Generated renderings using C bindings for the Renderman interface
 - Wrote a fully-functional ray tracer with soft shadows, depth-of-field, and texturing support
 - Wrote an OpenGL-based animation and modeling package using cubic surfaces and keyframe animation techniques
 - Heavy use of the GNU Image Manipulation Program (GIMP) for 2D artwork.
 - Portfolio available on the web at http://stealthboy.com/portfolio.php
- UNIX Systems
 - Extensive knowledge and use of Linux (since pre-1.0 kernel in 1993)
 - Mac OS X
 - Wrote a basic UNIX kernel and filesystem with caching
 - Administered dozens of UNIX machines, 10+ years experience with SGI IRIX
 - Networking, web server administration, firewall setup, mail configuration, and other sys admin functions

ACCOMPLISHMENTS

- Web-based training product won e-Learning Award of Excellence in 2002
- Presenter at the 2000 ACM SIGGRAPH Computer Graphics conference in New Orleans, LA Interactive 3D Rendering on PDA Platforms
- Published at the 2000 I/ITSEC Computer Simulation conference in Orlando, FL.
- Various web pages have received numerous awards and publicity, including an article in the London Times.
- SuperQuest 1994 national supercomputing competition "Investigation and Modeling of Electron Wave packet Transmission and Reflection Through Various Mediums"

OTHER INTERESTS

- Member of the ACM (SIGGRAPH), APS, NRA, VCDL, and PCA
- Linux hacking, filmmaking, collecting vintage Star Wars items, and listening to U2 and J.S. Bach