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SUMMARY

Looking for a technical management position as a hybrid developer / team manager. Software developer with 20 years experience working on a variety of platforms designing and developing analytics and algorithms, modeling and simulation software, system architectures, research and development projects, iOS mobile apps, and modern web application platforms. Currently leading a group of developers while also continuing to design and develop delivered software products.

EDUCATION

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

CLEARANCE

- Top Secret, Secret clearance held since 1996

EMPLOYMENT EXPERIENCE

- Haystax Technology (June 2014 to present) - *Director of Software Development*
 - Designed, managed, and assisted in development of a modern web application platform stack for multi-tenant, multi-app deployment of public safety and threat intelligence applications using AngularJS, Python, JavaScript, HTML5, REST APIs, MongoDB, and deployed on AWS (<https://constellation.haystax.com/>)
- Digital Sandbox, Inc. (December 1998 to June 2014 - acquired by Haystax) - *VP, R&D*
 - Designed and developed ConstellationTM, the streaming unstructured threat analysis platform using Storm, NLP, MongoDB, Python, jQuery and deployed on AWS (<https://watchboard.haystax.com/>)
 - Lead Mobile platform development for iOS devices (four distinct production apps)
 - Lead design and development effort of the Risk Operations Center framework
 - 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 ProfilerTM 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
 - Developed Subatomic for the iPhone
- Sonalysts, Inc. (June 1998 to June 1999) - *Software Developer*
 - Computer graphics programming in OpenGL for 3D gaming applications
 - Real-time computational fluid dynamics research in the area of smoke propagation and volumetric rendering

TECHNICAL EXPERIENCE

- Software Development
 - Full-stack from backend data to frontend user experience
 - Mobile app development
 - Delivered production software in C++, C, PHP, C#, Objective-C, JavaScript, Java, and Python
 - Web services (REST, SOAP, XML-RPC, .NET)
 - iOS SDK using XCode
 - Web applications (AngularJS, JavaScript, jQuery)
 - MongoDB (no-SQL), MySQL (SQL) and Oracle database APIs
 - Git, SVN source code control
- Computer Systems
 - Extensive knowledge and use of Linux (since pre-1.0 kernel in 1993)
 - Heavy Mac OS X use
 - AWS deployment (EC2, S3, ELB, et cetera)
 - Wrote a basic UNIX kernel and filesystem with caching
 - Networking, web server administration, firewall setup, mail configuration, and other sys admin functions

PATENTS

- *Method and Apparatus for Prioritizing and Routing Emergent Activity Reporting*, US Patent 8874071, October 28, 2014

OTHER INTERESTS

- Member of the PCA
- Linux hacking, computer security, homebrewing, filmmaking, and collecting vintage Star Wars items