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Henry Heikkinen

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Senior Software Developer

SKILLS/TECHNOLOGIES

Development Environments - C++, C, JAVA, Python, Perl, TCL, UNIX shells, FORTRAN
Development Tools - XCode, Visual Studio, GIT, Subversion, JIRA Agile, FishEye, Confluence
Operating Systems - Mac OS X, Windows, Linux, Embedded OS, Solaris, AIX, HP-UX
Audio - ASIO, VST, Audio Units, RTAS, DirectX, MP3, WMA, Plug-ins, DAWs, Pro Audio
Web Development – HTML5, JavaScript, CSS, PHP, DBI, Security, MySQL, Laravel
GUI Development - JUCE, MFC, ActiveX, TK, visual TCL, X server and client internals
Excellent communication, documentation, management and project planning skills

EDUCATION

Master of Science, Electrical Engineering and Computer Science - University of California, Berkeley
Bachelor of Science, Electrical Engineering - University of Maryland, College Park

PROFESSIONAL EXPERIENCE

Senior Software Engineer, 2016-present
University of California, Santa Cruz, Santa Cruz, California

Development of Custom Web Applications

- Creation of web applications using PHP, Javascript and MySQL on Linux
- Set up tools for development and deployment workflow
- API programming for Cascade CMS

Senior Software Engineer, 2004-2016

Senior Software Consultant 2002-2004

Universal Audio, Santa Cruz, California

Development of Professional Audio Hardware and Software Products

- Plug-In Software Application Development Lead -VST, AU, RTAS audio plugins for Mac and Windows using C++
- 2011, 2012, and 2013 TEC Awards for Studer A800, Ampex ATR-102 Tape Recorder, LA-2A Plug-Ins
- Helped establish third party developer program using SDK
- Launched uaudio.com web store, implemented with PHP and MySQL
- Developed product authorization security services
- Key member of a Grammy award winning audio product Engineering team

Senior Software Engineer, 2001-2002

Arrio Communications, Santa Cruz, California

Developed Standalone Internet Radio Player Product

- Designed and developed playlist interface, setup/update mode, tuning interface
- Developed using Windows Embedded, Windows Media Player and MP3 protocols
- Created Web interface to station database using Perl and MySQL

Software Engineer, 1996-2000

IBM/Tivoli Systems, Santa Cruz, California 2000 (now IBM Security Access Manager product)

DASCOM, Inc., Santa Cruz, California 1996-1999

Developed Web and Internet Security Products

- Developed Network Security Application Services for Solaris, AIX, HP-UX, Windows
- Developed Graphical User Interface for management of network access control product
- Led Internationalization project for multi-language product support
- Created and extended company development processes

- Used TET framework to manage automated testing

Senior Technology and Media Engineer, 1997-present

Live Funk, Santa Cruz, California

Technology Services for Musical Artists

- Live Audio Recording, Mixing and Mastering.
- Web Development and Digital Media Technology Consulting.

Technology Consultant

Armada Software, Santa Cruz, California 1995-2010

The Human Factor, Santa Cruz, California

Technology Consulting Services

- Setup and troubleshooting of advanced TCP/IP and NFS networking configurations
- Developed tools and procedures for management of entire UNIX OS source tree
- Architected dual-server UNIX systems with Sybase used in major retail chain
- Developed automated UNIX Server installation tool using Expect test language

Software Engineer, UNIX Distributed Objects and Systems Management Group, 1993-1995

The Santa Cruz Operation, Santa Cruz, California

- Developed Distributed System Management software with TCL-based GUI.
- Taught Windows MFC programming course sessions
- Automated source and build management, software integration and productization
- Created, administered, and developed with the department source, build and Web servers
- Led Configuration Management tool pilot program

Technical Support Engineer, UNIX Operating System and Networking, 1991-1993

The Santa Cruz Operation, Santa Cruz, California

- Provided UNIX Internals, Development System, and Device Drivers expertise for engineers
- Led SCO technical relationship with IBM hardware developers
- Developed and productized support supplements and productivity tools

Simulation Programmer, Plasma Theory and Simulation Group, 1989-1990

Electronics Research Laboratory, University of California, Berkeley

- Developed Graphical interface for simulations on Windows PC clients and Cray servers
- Created and taught course for physicists in computer modeling techniques
- Technical Presentations at software developers and physics conferences
- Trained and supervised programmers new to the group

Simulation Programmer, Charged Particle Beam Group, 1986-1989

Plasma And Fusion Energy Studies Laboratory, University of Maryland, College Park

- Developed and automated 3 Dimensional physics simulation codes on Cray Supercomputers
- Provided tools training and complete documentation for physics researchers

PERSONAL INTERESTS

- Recording and mastering live music performances.
- Graduate of Iyengar Yoga Institute of San Francisco 500 Hour Advanced Studies program
- Enjoy running, weightlifting, cycling and the outdoors

Technical Publications List:

<http://www.livefunk.com/pro/publications.html>

LinkedIn:

<http://www.linkedin.com/in/henryheikkinen>

References available upon request