

Alan Christianson

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Experience

Software Engineer	Dakota Legal Software	2011-2014
<ul style="list-style-type: none">• Led a successful port of our flagship product to OS X on an extremely tight schedule.• Developed tools and libraries that formed the core of our development efforts in a variety of languages, including C++, C#, Python, and VBA.• Managed Linux servers and MySQL databases to support our products.		
Software Engineer	Golden West Internet Solutions	2006-2011
<ul style="list-style-type: none">• Developed clustered DHCP server for broadband network with management API and reporting.• Developed NetFlow collection and aggregation system with support for real-time flow analysis, per-subscriber recording, traffic categorization, and reporting.• Performed diverse research and development for broadband network management and to support ISP operations.• Managed Linux and FreeBSD servers.		
Software Engineer (part-time)	Dakota Legal Software	2005-2011
<ul style="list-style-type: none">• Designed large portions of the company's first product, a MS Word add-in.• Developed core libraries, licensing and activation services, installers, and other critical components.		
Instructor	National American University	2005
<ul style="list-style-type: none">• Taught Introduction to Linux System Administration.• Covered shells, text editors, package management, file system structure, software configuration, security and permissions, etc.		

Education

M.S. Computer Science	South Dakota School of Mines and Technology	2010
<ul style="list-style-type: none">• Published papers on Evolutionary Algorithms• Studied AI, data mining, machine learning, data warehousing• Served as Graduate Teaching Assistant for assembly language lab• Researched and produced master's thesis on Grammatical Evolution		
B.S. Computer Science	South Dakota School of Mines and Technology	2004
<ul style="list-style-type: none">• 3.6 GPA		

Languages and Technologies

- Python, C, C++, VBA, bash, some C#
- PostgreSQL, SQLite, and MySQL databases.
- Windows, Mac OS X, Linux, and FreeBSD
- Visual Studio, Linux terminal, git, Subversion