

Von Fugal

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Education

BS in Computer Science, Brigham Young University

Graduating April 2010

Relevant coursework:

- Computer and Network Security
- Internet Programming
- UI Concepts and Design
- Computer Networks
- OS Design
- Modern (Quantum) Physics

Notable projects:

- Designed class projects for embedded platform
- Implemented AES cipher in Ruby
- Implemented components of academic OS
- Implemented TCP/IP in Python
- Wrote AI control for multi-agent capture the flag

Lab Assistant, Internet Security Research Lab (BYU)

April 2008–December 2008

- SAW (Simple Authentication for the Web) testing
- Tested webmail latency for SAW feasibility
- Wrote Rails plugin for SAW
- Contributed to SAW plugin for Gmail

Professional experience

Engineer – Integration & Testing, Applied Signal Technology Raytheon

October 2010–Present

- Virtualization using qemu-kvm, cobbler, libvirt, virsh
- Management of IBM BladeCenters including firmware and backplane switches
- NetApp storage for blades and VM with self-encrypting disks.
- DNS management and integration between domains using Bind9
- System monitoring and automation among 50-100 hosts per system using puppet and in-house tools
- Dracut initramfs, PXE, and kickstarts for provisioning and nfs root filesystems
- General Linux environment support for development and testing

IT Support and Sharpening Expert, Western Saw & Small Engine

May 2006–October 2010

- Networked and managed 3 computers, 4 printers
- Set up file/printer sharing, Windows/Mac
- Managed POS and parts software
- Sharpened to tolerances under 0.005 inches
- Kept 5 precision machines operating within tolerance
- Restored old and disused machines
- Sold and supported new and used equipment

PHP Web Developer, Kingsley Management

December 2003–December 2005

- Developed web-based property management system
- Maintained 100,000+ lines of PHP
- Ensured cross-browser compatibility
- Managed and normalized MySQL database
- Built complex system of utility billing calculations

Ski Instructor, Various resorts

Winters of 1999, 2000, 2005, 2006

- Taught classes of 5–8 students, up to 12 students
- Assessed student skills and tailored exercises
- Resorts: Ski Santa Fe, The Canyons, Sundance

Skills

Languages:

C, C++, Java, Ruby, Python, PHP, Javascript, CSS/XHTML, AJAX, Scheme,

Tools:

vi/Vim, Git, Darcs, puppet, openssl, Gnu utils (sed, xargs, awk etc), rsync, dracut, gdb, perl, {ba,}sh, ldap, sssd