



Jacob Courtney

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EDUCATION

California State University Bakersfield Campus

Fall 2009 to June 2013
B.S. degree in Computer Science
3.71 cumulative GPA

Bakersfield High School

Fall 2005 to Spring 2009
Graduated May 2009
4.13 cumulative GPA

EMPLOYMENT

HowCool.com · August 2009 to June 2013

6200 Lake Ming Road, Bakersfield, CA 93306

- All system administration duties on three production servers
- Design and development of major features and optimizations in both client and server code written in PHP
- Initiated the use of version control systems on our code and configuration, first using Subversion and later Mercurial. Also made major improvements to our method of code deployment
- Initiated the use of off-site backups of our production code and database. Designed and implemented a rotating backup system with nightly, weekly, and monthly tiers and point-in-time recovery
- Migrated entire OSCommerce-based application (extensively customized through years of in-house work) to the CodeIgniter web framework, the PDO database layer, and conformed to modern PHP best practices

SKILLS & QUALIFICATIONS

- Familiarity with managing heterogenous networks of Linux & Windows systems
- Experience planning and implementing passive and active network security measures such as IPTables/Netfilter firewalls, TCP tarpitting, Fail2ban, and Snort
- Extensive experience in system administration under Linux and FreeBSD
- Extensive experience with the Mercurial and Git DVCS for both code development and deployment
- Extensive experience with the MySQL database system, including replication, backup management, and configuration of hot standby servers
- Experience writing, maintaining, and deploying web applications in Python, PHP, Perl, and Javascript
- Experience writing GUI and console desktop applications in Python, PHP, C/C++, and Unix shell

OTHER WORK

- Contributed to scrotwm, a tiling window manager for X11 written in C
- Forked and maintain sscrotwm, a minimalist fork of the scrotwm/spectrwm window manager written in C
- Created and maintain urmpc, a console client to MPD written in Python utilizing the urwid terminal interface library
- Active member of Arch Linux community, maintaining several open source packages such as LessCSS, a superset of CSS, and PyGreSQL, a legacy Python module to work with PostgreSQL databases