



## Jacob Courtney

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- (312) 970-1558
- <https://github.com/sporkexec>

## 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 heterogeneous 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