

# Jacob Courtney

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<https://github.com/sporkexec>

## EDUCATION

### California State University

Fall 2009 to Spring 2013

Bakersfield, CA

BS in Computer Science  
(Magna Cum Laude)

## TECHNICAL SKILLS

### OPERATING SYSTEMS

Linux, macOS, FreeBSD, Windows

### STORAGE PLATFORMS

MySQL, PerconaDB, PostgreSQL,  
MariaDB, Redis, SQLite, Memcached

### LANGUAGES

Ruby, Python, Javascript, Unix Shell,  
C, C++, Java, PHP, HTML & CSS

### OTHER INTERESTS

User Experience & Usability, Web  
Security, Containers, Cryptography

## Groupon · Software Engineer · December 2015 to *Current*

- Organized Geekfest, a public meetup with technical talks hosted by Groupon for over 5,000 members of the Chicago engineering community
- Promoted to Level III Engineer in September 2016 following mid-year review
- Transferred from Goods Supply Team to Users Team in March 2017 to pursue wider-reaching initiatives while continuing to focus on security

### Users Team

- Seamlessly transitioned over 70 million accounts from LivingSocial acquisition into Groupon's Users Service, including preserving active web/mobile sessions to minimize friction and attrition after cutover
- Managed about 60 hosts in 3 datacenters, servicing over 50 million active users

### Goods Supply Team

- Saved 20 engineer-hours monthly in support costs by automating resolution of recurring deal publishing issues
- Architected auth/security infrastructure for our catalog management platform built with Rails API and Ember, including role/permission authorization, user management UI, and API token authentication for third party integrations
- Built a JavaScript API Discovery library to guarantee well-formed requests to any Groupon service and create auto-generated responses for testing

## 82 Birds · Web Developer (Remote) · June 2014 to December 2015

- Performed optimization of existing MySQL queries to yield up to tenfold improvements in production page load performance
- Modularized large PHP and JavaScript codebase in order to clarify dependencies and improve reusability
- Responsible for frontend development of an EDI transaction management web application directly servicing top luxury brands and engaging with companies such as Best Buy, JCPenney, Kay Jewelers, Kohl's, Macy's, and Sears

## IPsoft · Senior Linux Systems Admin · February 2014 to May 2014

- Performed analysis of Nagios-driven monitoring alerts in an environment of over 10,000 Linux installations
- Increased production of new tools to automatically resolve monitoring incidents by over 7 times within a 2-month period
- Responsible for training 7 junior engineers to create automatic tools using Javascript and Java within a proprietary Rhino-based framework

## HowCool.com · Developer/Sysadmin · August 2009 to June 2013

- Performed all system administration and most development tasks for 3 production servers and 3 local servers running a LAMP stack
- Initiated the use of version control systems, semi-automated deployment, and tiered rotating off-site backups with point-in-time recovery
- Migrated entire OSCommerce-based application to the CodeIgniter web framework, the PDO database layer, and conformed to PHP best practices