**Casey West**
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## Professional Summary

Expert full stack web application developer. I specialize in high-availability, maintainable, scalable solutions focused on usability.

I empower product teams to deliver outstanding results under difficult constraints by building teams with culture and tools that promote happiness and productivity.

## Employment History

### UI Architect & DevOps Architect
*WhiteHat Security*
*November 2012–Present*

Software Architect and team lead responsible for sweeping change and modernization across the organization. Acted as a strong, hands on technical lead and change agent to bring modern development tools and processes into Engineering and affected positive change in IT, development, QA, release, and design. I worked very effectively as a technical leader while remote.

*Projects:*
- Technical Leadership, Change Agent, Team Building, and Hiring
  Built and led three teams: one DevOps and two Application development teams. Hired the best talent available from within the company, across departments, and from around the world. Implemented a successful, modern hiring program which reduced waste and offered high levels of confidence in fit of candidates for culture, experience, and skill set. Hired eight engineers using my process.

  Rebuilt the SDLC from the ground up to allow continuous delivery with a streamlined, agile, lean process and a culture of trust and shared responsibility. Made it successful by implementing 12-factor apps, an automated software delivery pipeline and increased collaboration and transparency with GitHub Enterprise, HipChat, and New Relic.
- DevOps, Developer Tools, Infrastructure, and Automation
  Lead a team of DevOps engineers, known as Shire Ops. We quickly converted the engineering organization from Subversion to GitHub Enterprise and the open-source pull request collaboration process. While doing so we rebuilt the SDLC and increased our releases per year by 300%. We automated the delivery pipeline with Jenkins, Ansible, and Docker, which opened the opportunity for continuous delivery.

  Built the foundation that let us deploy easily to private data centers, and AWS in Germany opening up Europe as a new market. We were also able to upgrade our operating system by four major revisions across all data centers without downtime or interruption of the development process. Within a year Shire Ops took primary responsibility for the delivery and health of production operations in multiple data centers.
- Architecture and Software Development
  Lead a team of software engineers, known as Shire Apps. We are rebuilding our customer facing web application from scratch using Ruby on Rails. Avoided second system syndrome and redeveloped components one at a time by embedding new functionality into the existing user interface. This was seamless and allowed us to develop the next generation interface iteratively.

  Drastically improved performance and usability with each component we rebuilt. Created a culture of high quality development while delivering business value; our application was a joy to work on and easy to maintain. We did this through prototyping, BDD, and refactoring.

**Independent Software Consultant**
*Self Employed*
*March 2009–November 2012*

*Projects:*
- Security Remediation and Modernization for Experian CheetahMail Built static security analysis tools to find XSS and SQLi vulnerabilities in large-scale Perl applications with minimal false positives. Worked with a team of engineers on vulnerability remediation. Helped rebuild core implementation using best practices of modular, testable software design.
- Internal 360 Degree Review Service for Startup Company Created a small team to quickly build and deliver a beautiful, feature rich 360 degree peer review tool which modeled the company's organizational structure and managed the workflow of collecting and responding to peer feedback. Integrated into their internal SSO infrastructure and deployed behind their firewall with no access to the system.
- Development and Architecture for a Preventitive Health Social Startup Joined a small team of developers building a preventative health social network with gamification of personal health goals. Quickly implemented solutions to challenges created by prior engineers' poorly tested work, and helped them get past critical technical challenges to move forward and go to market.
- Realtime Geospatial Media Service for Technology Company Joined a small team to architect and build a realtime software product for live streaming video, video on demand, and photo sharing on a closed network for use inside organizations. Application includes geo-locating all media (live streams, video on demand, and photos) as well as agents responsible for generating that media. Operators of the system can view the status of all objects in the system in realtime including locations, streaming, and new generated media. Built application using Ruby on Rails 3, jQuery, CSS 3.0, advanced KML, Google Maps API v3, HTTP Live Streaming (HLS), Real Time Streaming Protocol (RTSP), VLC for transcoding, and MySQL Geospatial Extensions. Web user interface optimized for desktop and mobile clients.
- Social Network Optimization and Visualization for Startup Company Completely overhauled the user experience, rebuilding the workflow, visual design, and focus of the application. Rebuilt all data visualizations using HTML 5, CSS 3.0, and jQuery for iPad compatible charts and graphs, and interactive visualizations. Rebuilt the in-app twitter client. Engineered visualizations and workflows to have real-time update capabilities in most areas of the application, with user control. Consulted the team on direction and focus of features and design, and contributed to project management and goal making.
- Jobs Graph Social Network for Startup Company Early-project conceptualization and brainstorming, and later working with a development team building functionality by glueing backend work to design concepts. Built with Ruby on Rails 3 with jQuery. Developed integrations with third-party from LinkedIn, Plancast, and SlideShare.
- Data Cloud Dashboard for Technology Infrastructure Company Developed a theme-able, dashboard interface on top of a RESTful data cloud product developed internally. Used jQuery and modern web techniques.
- Grants Management Software for a Non-profit Foundation Built hGrant feed for display, filtering, and syndication in PHP using Symfony. Co-architected and developed new Grants Management software to facilitate the grant making workflow in the organization. Developed in Ruby and JavaScript with Ruby on Rails and jQuery. Built interactive, immersive dashboard interface from client mockups making heavy use of CSS 3.0, jQuery, HTML 5, and modern web design techniques.
- Data Visualization and Aggregation for a Non-profit Assumed maintenance and continued development of Grantsfire. Developed in Perl and JavaScript using Catalyst, jQuery, XSLT, Microformats, OpenID, and MySQL. Improved performance; added data and administrative tools, feed validation services, OpenID integration; and performed sysadmin duties. Wrote the hGrant Microformat Specification based on existing work, implementations, and documentation.
- Social Network, Scoring System, and iPhone Development for Design and Game Company Assumed maintenance and continued development of XEOPlay, the online social network for the Tilt, an iPad and iPhone game. Worked on performance benchmarks for the game on iOS devices and improved in-game score keeping and leaderboards.
- Social Network and Online Game for a Civic Organization Developed and deployed the Drive Less Challenge social network and gaming tool for the 2010 challenge. Built with Ruby on Rails, Open ID, Facebook Connect, and modern web design techniques.
- Volunteer Management System for Wikimedia Foundation Built volunteer submission system to give thousands the opportunity to participate in Wikimedia's strategic planning. Developed in Python and JavaScript using Django and jQuery. The application is internationalized (I18N) and localized (L10N) using Django, with additional custom languages added according to client needs. Performed system administration, including detailed Nagios service monitors. Application integrates with MediaWiki using its web service API.

### Lead Software Engineer, Infrastructure & Architecture
*CombineNet*
*February 2008–March 2009*

Lead Engineer with focus on infrastructure and web application architectures.

*Achievements*
• Managed engineering effort through a comprehensive, 10-month infrastructure upgrade.
• Advanced unit testing among product engineers.
• Improved UX through RTE integration and Spreadsheet data validation.

### Lead Developer & VP Engineering
*Socialtext*
*August 2005–February 2008*

Lead developer specializing in web application user interfaces. Interim VP Engineering.

*Achievements*
• Stepped up to be interim VP Engineering; lead engineering to meet company strategy.
• Hired five senior software developers; managed twelve.
• Completed redesign of software which aided in funding.
• Lead R&D of new people oriented collaboration tools
• Collaborated on OSI Compliant Software Licence for SaaS, CPAL.
• Wikiwyg released on time, by Web 2.0 Conference, 2005.

### Software Developer
*pair Networks*
*July 2003–July 2005*

### Senior Systems Developer
*DynDNS.org*
*August 2002–July 2003*

### Senior Software Engineer
*Aaronsen Group*
*August 2001–August 2002*

### Software Engineer
*Agnew Moyer Smith Inc*
*February 2000–August 2001*

## Community Involvement

### Co-organizer
Rails Girls Pittsburgh

One of four organizers for this event which brought together local and national Ruby on Rails experts to teach women and girls how to program in a safe, friendly, supportive environment.

### Co-organizer
Yet Another Perl Conference

One of four organizers for this annual conference. Designed and implemented website, delivered keynotes, and organized social events. 10th Anniversary.

### Co-organizer
Pittsburgh Perl Workshop

One of four organizers for this annual conference. Designed and implemented websites for each year, managed sponsors, delivered keynotes, and organized social events.

### CPAN Author
Comprehensive Perl Archive Network

Dozens of software libraries released as open source.

**A short list of some things I know about.**

*Languages*
- Ruby
- CoffeeScript/JavaScript
- Perl
- Python
- Haskell
- C
- PHP
- Shell

*Services & OSes*
- AWS
- Heroku
- New Relic
- Travis CI
- GitHub
- Mac OS X
- Linux (Ubuntu, Fedora)
- FreeBSD
- Windows

*Software & Libraries*
- Ruby on Rails 4
- Backbone/jQuery
- Ansible/Chef
- Catalyst
- nginx/Apache 2
- PostgreSQL/MySQL
- Redis/memcached
- Django
- Jekyll

*Standards*
- HTTP (REST)
- Realtime Web (WebSockets/PubSub)
- Email Protocols
- I18N
- L10N
- LDAP

*Process*
- Architecture and Design
- Team Leadership
- Agile/Lean/MVP Development
- Responsive/Mobile Applications
- Build Systems
- Operational Security
- Web Security
- Scalability
- Plugins and Extensibility

*Web Tools*
- HTML 5
- CSS 3.0/SASS/Less
- XML
- XPath
- XSL
- KML