

# Andrew Rodland

Software Developer, Technical Lead, and Unix Automator

283 Park Ave  
Lyndhurst, NJ 07071  
andrew@cleverdomain.org  
(815) 508-2110

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## Summary

I'm a polyglot developer with nearly 10 years of full-stack experience. I'm equally capable at web development, backend services, systems and tools programming, and systems administration. I contribute to open-source software, and I make myself a resource to the people around me. I'm always willing to learn new technology, and always willing to use something battle-tested and proven.

## Professional Experience

**March 2015 - Present:** Senior Backend Engineer, Video Systems  
**Vimeo, LLC**

I develop software and maintain infrastructure for video uploading, transcoding, and streaming as part of Vimeo's Transcode & Delivery team, working primarily in Go.

**October 2014 - February 2015:** Principal Engineer, Customer Experience and Content Pipeline;

**October 2011 - October 2014:** Technical Lead, Customer Experience;

**July - October 2011:** Developer, Customer Experience;

**April - July 2011:** Developer, Large Accounts;

**Shutterstock Inc.**

While at Shutterstock I worked throughout the stack in an agile environment building user-facing web applications, services, and tools. I have written applications in Perl (Mason and Dancer), NodeJS, Python, and C, making use of a great variety of technologies including HTML/CSS/JS, jQuery, Prototype, Bootstrap, socket.io, MySQL/MariaDB, Redis/Sentinel, Hadoop/Hive/MapReduce, Zookeeper, Solr, StatsD and Graphite. I contributed to the development of in-house tools for user behavior tracking, A/B testing, and code deployment. My time on the Large Accounts team saw the initial launch of Shutterstock's enterprise product, and during my 3 years as technical lead the Customer Experience team made many great improvements to content discovery and downloading on the site as well as transitioning to a services-oriented architecture.

**April 2006 - March 2011:** Developer and Systems Administrator, **PlatinumTel Communications, LLC / HBS Labs, LLC.**

I was hired in a software development position for PlatinumTel (the technical department of which was spun off as HBS Labs in 2007). Over time my responsibilities grew to include a measure of application design, as well as systems administration tasks. As part of a small team I maintained as well as created a number of web applications using Perl and Catalyst, with Oracle DB including PlatinumTel's customer-facing website, a sales and service portal for our authorized dealers, and a number of internal tools. I oversaw the internationalization of two of our sites, building translation tools, and the creation of an online store for phone sales. I also maintained telephony apps using Perl, Asterisk (AMI/AGI), Hylafax, and Quintum TenorCMS. In addition I wrote scripts for ETL and data mining tasks, did day-to-day administration and established monitoring for an in-house server room of 30+ machines, and oversaw an upgrade of core network systems including OpenLDAP, BIND, ISC DHCP, Postfix, and Samba.

#### Talks and Papers

**FLOSS Weekly Episode 321** on the Marpa parsing framework, with Randal Schwartz and Gareth Greenaway, January 2015.

**Parsing Made Easyish with Marpa**, Perl Oasis 2013, Orlando, FL, January 2013. Revised and expanded for YAPC::NA 2014, Orlando, FL, June 2014.

**StatsD and You - Easy Application Metrics:** YAPC::NA 2013, Austin, TX, June 2013. Revised for Pittsburgh Perl Workshop, Pittsburgh, PA, October 2014.

**Web::Simple - A Perl Web Nano-Framework:** YAPC::NA 2012, Madison, WI, June 2012. Revised and expanded for Shutterstock tech-talk, September 2012.

**Arduino-Based GPS-Disciplined NTP Server:** YAPC::NA 2012 Hardware Hackathon, Madison, WI, June 2012.

**Dynamic Website Translation with Catalyst and Petal:** YAPC::NA 2007, Houston, TX, June 2007.

#### Other Notables

- I created and maintain several CPAN modules including Crypt::PBKDF2 (password hashing), Test::Exit (unit testing), Net::Statsd::Client (a client for Etsy's StatsD metrics aggregator), and Unicode::CaseFold (unicode case normalization). I co-maintain a few more modules.
- I created the open-source "Smockron" distributed rate-limiting proxy for NodeJS and Nginx.
- I am a credited contributor to open-source projects including Catalyst, DBIx::Class, Marpa, perl, and local::lib. I have a tiny patch in Linux.
- I have been credited for technical contributions to *The Definitive Guide to Catalyst* (Diment, Trout 2009) and *Effective Perl Programming 2/e* (Hall, McAdams, foy 2010).
- I am listed as co-inventor on two Shutterstock-owned patent applications relating to innovative image search tools.