

# Chris Winberry

Jack of all trades, master of some

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## BACKGROUND



### ABOUT

Full stack software engineer with enterprise-scale architecture expertise and conversant in many technologies/languages.

Experienced in both the OSS stacks (MEAN, LAMP, RoR, etc.) and proprietary (.Net, Oracle, SAP, etc.) with a work history covering enterprise scale (BN.com), to mid-size (Etsy), to startups (Wantworthy, Moveline). Extensive experience in all layers of a web application stack with a current focus on rich web and mobile products driven by RESTful backends. Experience also includes many years of automating deployments, CI, logging and metrics, and many other DevOps skills. Proven track record with a strong drive and ability to learn new technologies/methodologies and the experience to apply them effectively.



### WORK EXPERIENCE

#### Sr. Software Engineer / DevOps / Architect (100% remote), Moveline, Inc.



Techstars NYC class of 2012 and a Holocratic company  
- in addition to software development, responsibilities include security, systems architecture, devops, and interviewing/hiring new engineers

Stack: Nginx, NodeJS, ExpressJS, Restify, Mongo, Postgresql, AngularJS, BackboneJS, Bootstrap, AWS, Heroku, Grunt, Gulp, Redis

- Lead projects to consolidate configurations, establish better development processes, implement monitoring and reporting, and improve and consolidate logging and metrics
- Designed the data driven logic engine that handles the workflow of moves from initial quote to completion

Joined: Sep, 2013

Currently Working

🕒 1 year 2 months

- Lead development of an automated pricing calculator that provides instant moving quotes based on complex van line business model

## Technology Consultant / Proprietor, Tautologistics llc



Providing consulting services for small and large organizations. Services include: planning e-commerce solutions for 'brick and mortar' stores, troubleshooting hardware/network issues, analyzing and defining development processes, and modifying and debugging software systems

- Authored the node module htmlparser
- Consultant for Nokia Research C3 team, working on development of next generation mobile applications and services
- Re-architected PHP CMS that is customized and deployed on branding sites for organizations such as Nike, Toyota, and AARP
- Provided on-site IT support for BasicBasic/Tee-Zone websites, store, and warehouse

**Joined:** Feb,  
1995

**Currently Working**

🕒 19 years 9  
months

## VP Engineering / DevOps (100% remote), Wantworthy, Inc.



Techstars NYC class of 2011 - Wantworthy 'lets you save the products you want from any site as you're shopping online and gives you a place to organize, compare and get feedback from friends'

Stack: Nginx, NodeJS, ExpressJS, DynamoDB, AngularJS, BackboneJS, PhantomJS, Bootstrap, AWS, Grunt, Redis

- Developed a site indexer/scrapper for finding new products on e-commerce sites, scraping product data, and processing product images. Built on NodeJS and PhantomJS with a job queue that scaled AWS worker instances based on the queue size; the system indexes over 100 sites and processes 1000s of products daily
- Created a product admin tool to complement the indexer/scrapper. Built using NodeJS, Express, and Express Resource to provide a REST API for an AngularJS webapp. Development time was considerably sped up thanks to Yeoman (a.k.a. grunt, bower, and yo)
- Established a logging and metrics system that provides real-

**Joined:** Feb,  
2012

**Left:** Sep,  
2013

🕒 1 year 7  
months

time log streaming, log searching, and graphs. A custom NodeJS module handles writing log data to local disk and to a remote syslogd for aggregation. Logstash, with Kibana as front end, processes logs from syslogd and provides log searching and real-time streaming. Metrics are captured using StatsD, collectd, Carbon, and Graphite and displayed via the Graphene dashboard; metrics captured include latency at all layers, hit/operation counts, and system health (i.e. memory, cpu, and disk)

- Maintained and expanded the main BackboneJS + MarionetteJS webapp including converting PSDs into pixel-perfect EJS templates and LESS style rules and adding new endpoints to the REST API
- Implemented the social features of the Wantworthy webapp, including a facebook friend finder with a scoring system for bringing one's closest friends to the forefront

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**Sr. Engineer (60% remote),** Etsy, Inc.



Part of the Storefronts team, providing tools and services to Etsy's legion of purveyors of all things handmade.

**Joined:** Feb, 2011

**Left:** Feb, 2012

🕒 1 year

Stack: PHP, Postgresql, MySQL, Ruby, Solr/Lucene, NodeJS

- Rewrote the legacy Ruby on Rails currency conversion system in PHP in order to leverage all the Etsy libraries, the logging systems, and Etsy ops/monitoring
- Proposed a client-side logging library that hooked into the existing backend log system. Wrote the initial code and then organized a group to review and improve the library. Once deployed, helped identify issues that users were experiencing that were not showing up with existing logging and metrics
- For hack week, completely rewrote the log streaming tool (Supergrep) to remove browser memory leaks, improve data visualization, and add features including filtering, sorting, improved message parsing, and a global blacklist
- Managed group that added shipping options for buyers and sellers. This included a reworking of many monolithic legacy pages into the current page architecture and integrating the shipping data into the orderpath system
- Lead the development of the front end for the new credit card (CC) and gift card (GC) features

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**Manager, Services Architecture,** BarnesandNoble.com

Responsibilities included establishing processes for development/building/testing/deployment, diagnosing and treating critical failures, security holes, and performance issues, establishing standards for exposing data and business processes as web services, and working with security team to identify security flaws through system scans and code audits



Stack: Windows Server, IIS, SQL Server, ASP.net, .Net/C#, Java, Oracle

- Lead developer for the Nook SyncML service, a standards compliant sync service to synchronize digital and user-generated content between web, desktop, and mobile clients
- Managed a team of 12 that designed and built the BN.com community site (my.barnesandnoble.com), which added social networking features to BN.com and replaced the legacy wish list, recommendations, ratings, and review systems
- Technical lead on company's transition from VB6/COM codebase to .Net, including a switch to SOA to consolidate exposure of data and business logic to the web front end, parent company systems, and business partners
- Established a department-wide build and test process at BN.com that included an automated build server, unit testing, code analysis, and deployment
- Lead design and development of the digital book viewer, which includes a DRM/policy system, remote caching service, and back-end integration with external publisher services
- Developed core .Net framework used department-wide. Framework covers configuration management, client data storage, content caching, encryption and key management, reporting/logging, and configurable logic engine
- Designed and lead development of web services, which expose product data to both back-end systems and browser-based applications

**Joined:** Jul, 2007

**Left:** Aug, 2009

🕒 2 years 1 month

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### **Manager, Website Architecture, BarnesandNoble.com**

Responsibilities included defining development processes to improve the speed and quality of the development, testing, and deployment process, work with security team to identify holes in production and development code, and provide emergency support for critical production issues

- Led code reviews and software optimization efforts. Largest project reduced search and product page server load by 45%

**Joined:** Jun, 2003

**Left:** Jul, 2007

🕒 4 years 1 month

and increased server stability

- Developed guidelines and tools that improved the development and deployment process to allow 70% more deployments per quarter
- Developed automated profiling toolset to analyze VB6, C++, .Net, and XSL
- Member of architecture team that completely redesigned e-commerce system
- Architected SCM and automated deployment system to manage developer workflow. Managed team of 2-4 developers to develop system and integrate with existing VSS repositories and Rational software. System reduced production deployment issues by 95%, deployment time by 85%, and development time by 20%
- Architected new content caching system that supports live configuration health monitoring. Cache currently handles 1400MB of content in 20,000 projects and is 900% faster than the original cache
- Performed security code audits and developed security tools and guidelines to bring company into PCI compliance

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**Website R&D Lead, BarnesandNoble.com**

**Joined:** May, 2000

**Left:** Aug, 2003

🕒 3 years 3 months

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**Content Engineer, BarnesandNoble.com**

**Joined:** Jul, 1999

**Left:** May, 2000

🕒 10 months

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**QA Analyst, BarnesandNoble.com**

**Joined:** Jun, 1997

**Left:** Jul, 1999

## </> SKILLS

### Currently learning

AppGyver/Steroids/Supersonic   React/Flux   Haskell   Rust

### Front end

HTML   CSS   Javascript   Less   Sass   Jade   AngularJS   BackboneJS  
Marionette   Chrome/Firefox extensions   Cordova (PhoneGap)  
Ionic Framework   Bootstrap

### Back end

NodeJS   ExpressJS   Nginx   Apache   IIS   EBS   EC2   S3   SNS   SQS  
Heroku   .Net/ASP.net   StatsD   Graphite   syslog   Logstash   Kibana  
Elasticsearch   Varnish   Memcached   Gearman

### Databases

Postgresql   PostGIS   MySQL/MariaDB   DynamoDB   RDS   RethinkDB  
Redis   MongoDB   Oracle

### Languages

Javascript   Coffeescript   PHP   C#   SQL/PL-SQL   XSLT/XPath/XSD  
JSONSchema   Java   Perl   bash/zsh   Ruby   Python

### Tools

Grunt   Gulp   Bower   Browserify   Webpack   Mocha   Chai   Jasmine  
Sinon   git   svn   upstart   monit   Netflix Asgard

### Platforms

AWS

Vagrant

Docker



## INTERESTS

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### Outdoor

Trail running

Hiking

Cyclocross

Downhill

Super-D

Enduro

Snowboarding

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### Misc

Hardware hacking

3d printing

Product prototyping