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 / Security, 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 conslidate 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

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Technology Consultant / Proprietor, Tautologistics llc

Joined: Feb, 1995

Currently Working

🕑 19 years 9 months

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

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VP Engineering / DevOps, Wantworthy, Inc.

Joined: Feb, 2012

Left: Sep, 2013

🕑 1 year 7 months

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/scraper 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/scraper. 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-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

Sr. Engineer, 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 organised 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

Manager, Services Architecture, BarnesandNoble.com

Joined: Jul, 2007

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

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%

Left: Aug, 2009

🕐 2 years 1 month

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

Website R&D Lead, BarnesandNoble.com

Joined: May, 2000

Left: Aug, 2003

🕑 3 years 3 months

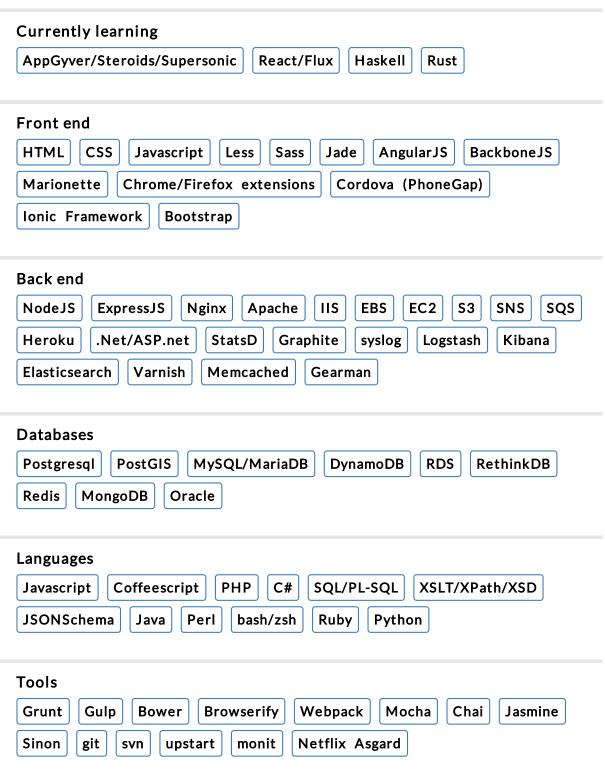**Content Engineer**, BarnesandNoble.com

Joined: Jul, 1999

Left: May, 2000

🕑 10 months

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

Outdoor

Trail running   Hiking   Cyclocross   Downhill   Super-D   Enduro
Snowboarding

Misc

Hardware hacking   3d printing   Product prototyping