

# PATRICK FORCE

[PATRICKFORCE@GMAIL.COM](mailto:PATRICKFORCE@GMAIL.COM) [GITHUB — PATRICK FORCE](#) [LINKEDIN — PATRICK FORCE](#)

MOBILE: (404) 310-4158

## TECHNICAL SUMMARY

- Proven senior-level developer with experience in various technologies to deliver high-quality software products
- A good deal of work in software conceptualization, design, and implementation; fully capable of leading efforts focusing on architecture, project management, and development
- Experience in DevOps roles, with care for maximizing the time we spend on tackling the unique problems of application development instead of the surrounding complications of environments, infrastructure, and deployment
- Able to understand, analyze, and address complex challenges associated with the design and development of scalable platforms, including performance concerns and security best practices

## LANGUAGES

**SCRIPTING:** PHP, Java, Python, Ruby, JavaScript

**DATA-ORIENTED:** SQL/T-SQL, XPath, XQuery

**MARKUP AND NOTATION:** HTML, YAML, XML, JSON

**STYLESHEET:** XSL, CSS, Sass, LESS

**COMMAND LINE:** bash

## DEVELOPMENT PLATFORMS, APPLICATIONS, TOOLS, AND FRAMEWORKS

**JAVASCRIPT:** Node.js, Gulp, Grunt, JQuery, Backbone, AngularJS, d3, Express, Loopback.io

**JAVA:** Restlet, Spring, Hibernate, Ant, Maven

**RUBY:** Ruby on Rails

**PHP:** Zend Framework 1 and 2, Laravel, Symfony, Wordpress, Drupal 6 and 7, Composer, Phing, PEAR/PECL, Gearman, XHProf, Xdebug, phpunit

**TEMPLATING:** HAML, ERB, Mustache, Smarty, Twig, Pug/Jade

**DATA-ORIENTED:** SQL Server, MySQL, MarkLogic, Apache Solr/Lucene, Memcached, Redis, MongoDB, Elasticsearch and the ELK Stack

**WEB AND CLOUD COMPUTING:** Apache/Tomcat, Nginx, DigitalOcean, AWS and it's various products including EC2, RDS, Elasticache, S3, CloudFront, CloudFormation, EFS, ELB, aws-cli, and others.

**DEVOPS AND SYSADMIN:** Ansible, Docker, Kubernetes, Mesos, Vagrant, Terraform, Puppet, Chef, Jenkins, other CI/CD tools such as Travis, CircleCI, and Semaphore

**VERSION CONTROL:** Subversion and Git, Github, Bitbucket, GitFlow

## METHODOLOGIES, CONCEPTS, AND PROTOCOLS

- Standard-compliant web design and implementation, including web application security standards
- REST and HTTP, including web-based API resource development
- Test and behavior-driven development, unit and automated functional testing
- Linux Systems Administration
- Version control
- Understanding of various design patterns, including those present in typical OOP, and others like MVC
- Authentication standards and protocols: OAuth 1 and 2, SAML, OpenID, LDAP
- SaaS, PaaS, and IaaS practices including service-oriented and microservice architectures
- Platform architecture and development best practices through things such as containerization, automated provisioning, scaling, and continuous integration
- Agile team experience

## PROFESSIONAL EXPERIENCE

### CONTRACT DEVELOPER AND DEVOPS CONSULTANT

2015 – present

Currently working on independent development and devops-related projects. A list of a few notable clients during this period include include:

COLORADO, USA

- [Bletchley Park](#)
- [Modern Tribe](#)
- [Vidstore](#)
- [CourseArc](#)

[And here's a little more detail on what I've been up to recently.](#)

### A HUNDRED YEARS

2014 – 2015

### CONTRACT DEVELOPER AND CONSULTANT

LOS ANGELES, CA

- Lead architect on a new public and internal platform for [The Rockefeller Foundation](#)
- Implemented an MVP distributable AngularJS directive data visualization tool for [Renaissance Learning](#) to more easily see skill and standard progressions across grades K-12. You can learn more about the tool and surrounding components at [Learnalytics.com](#)

**KINDLING, INC.****2011 – 2014****LEAD DEVELOPER****NEW YORK, NY**

- Led application architecture and development responsibilities for this product that delivered idea management and collaboration software to organizations, with a focus on PHP and MySQL development, framework integration, and custom low-level tool design
- Successfully met an aggressive 2-week release schedule, deploying variants of Agile methodologies to achieve meaningful and stable releases
- Encouraged and facilitated the growing of testing and QA efforts, setting some goals for code coverage in testing and putting together efforts around user story collection, maintenance, and use in a formal QA process.

**COLUMBIA UNIVERSITY — CENTER FOR DIGITAL RESEARCH AND SCHOLARSHIP****2009 – 2011****APPLICATION DEVELOPER****NEW YORK, NY**

- Gained experience working with Fedora Repository, Apache Solr and Lucene
- Served a key role as data store architect for The Virtual Forest Initiative, a project dedicated to providing searchable, downloadable Black Rock Forest data for scientists, educators, and community members
- Lead Ruby on Rails and Solr developer for the University's Academic Commons
- Developed expertise managing system processes in Ruby, including forking and asynchronous processing to re-index large amounts of data
- XML and Java object-oriented work to support automatic generation of online publications using provided publisher XML data

**TANNERMARK****2010****WEB DEVELOPMENT****ATLANTA, GA**

- Translated the design comps provided by Tannermark into a new, Wordpress-backed site for [www.spiveyhall.org](http://www.spiveyhall.org)
- Utilized complex Wordpress customizations and HTML/Javascript capabilities to satisfy some unique front-end and dynamic requirements

**ACKNOWLEDGE****2009 – 2011****FLEX/PHP APPLICATION ARCHITECTURE AND DEVELOPMENT****NEW YORK, NY**

- Designed and developed an HTTP API using Zend Framework 1.0, as well as a Flex front-end for a Visio-like web-based tool, enabling the easy construction of organizational theories and planning processes for organizational initiatives

**CHILDREN'S PROGRESS****2008 – 2009****XSLT, JAVA, AND FLEX/AIR DEVELOPMENT****NEW YORK, NY**

- Resolved long-standing development needs that were compromising the progress of CP's legacy application, a digital aide in grade-school education
- Integrated the Flex front-end with SOAP-based API calls for account and student management
- Converted a large number of loosely-formatted XML documents into strict schema-defined formats for interpretation and rendering by a Flex engine, including XSL transformations for client-side needs

**ARC90, INC.****2006 – 2008****COLDFUSION, JAVA, XML, MARKLOGIC, JAVASCRIPT/AJAX, SQL SERVER DEVELOPMENT****NEW YORK, NY**

- Led development efforts in support of homeowner's insurance software applications, maintaining and updating a ColdFusion/Java engine that produces insurance quotes in real-time by processing client input against insurance product information in XML format
- Encouraged and kicked off migration to a Java-only backend
- Architected a service-oriented suite of applications, separating concerns of authentication/authorization from quoting, quote management, and product maintenance
- Migrated data from a pure XML database (MarkLogic) to a hybrid XML-relational data structure in SQL Server, translating and inserting over 1 million records
- Chairman's Award Winner, 2007

**WEBBIFI DESIGNS****2005****ASP PDF CREATION COMPONENT UPGRADE****ATLANTA, GA**

- Created an ASP PDF rendering module to support a client site

**ELIZABETH LAIME, PETE AND BRIAN****2005****WEB AND FLASH DEVELOPMENT****NEW YORK, NY**

- Built a website component in Flash, a "doodle-able" headshot image of Elizabeth
- Developed a new website for the comedy duo Pete and Brian based in NYC, enabling the dynamic control of all site content using a custom CMS, with an AJAX framework

**WEBBIFI DESIGNS****2004 – 2005****DEVELOPMENT AND IT INFRASTRUCTURE MANGEMENT, DEVELOPMENT****ATLANTA, GA**

- Technical and development lead for a product and design shop using ASP, Visual Basic, SQL Server, and Microsoft Access
- Single-handedly built a new online store and in-store POS for a local bookstore, handling everything from software maintenance to systems administration

**EDUCATION AND PROFESSIONAL DEVELOPMENT**

- **COLUMBIA UNIVERSITY – NEW YORK, NY** Coursework in Astronomy
- **UNIVERSITY OF GEORGIA – ATHENS, GA** GPA 3.45 BBA in Management Information Systems  
Recipient – Honors Program Scholarship, Dean's List
- **COLORADO STATE UNIVERSITY – FORT COLLINS, CO** GPA 3.78 School of Computer and Electrical Engineering  
Member – Golden Key International Honor Society, Dean's List

## INTERESTS AND HOBBIES

- Long distance hiking. July - November, 2015, I hiked about 2000 miles of the Continental Divide Trail
- I enjoy the creative potential of software. I think it is one of the most promising ways of doing good.
- I'm a fan and [creator](#)\* of score and soundtrack work for independent films, online videos, theatre, etc.
- Movies
- Pizza
- Tacos

References Available Upon Request

\* In the event that you received a version of this resume that is printed or doesn't contain working links, you can go to <http://www.patrickforce.com/music> for the music page.