

PATRICK FORCE

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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 focused 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
- Ability solving the 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/ES6

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

MARKUP AND NOTATION: HTML(5), YAML, XML, JSON

STYLESHEET: XSL, CSS(3), Sass, LESS

COMMAND LINE: sh/bash

DEVELOPMENT PLATFORMS, APPLICATIONS, TOOLS, AND FRAMEWORKS

JAVASCRIPT: Node.js, Gulp, Grunt, JQuery, Backbone, some React and React Native, AngularJS, d3, Express, Loopback.io

RUBY: Ruby on Rails

PHP: Zend Framework, Laravel, Symfony, Wordpress, Drupal, Composer, Phing, PEAR/PECL, Gearman, XHProf, Xdebug, PHP and PHP-FPM system configuration

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

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

WEB: Apache/Tomcat, Nginx

CLOUD COMPUTING: DigitalOcean, AWS (most services)

CONFIG MGMT, CONTAINERIZATION, CI/CD: Ansible, Docker, some Kubernetes and Mesos, Vagrant, Terraform, Puppet, Chef, Jenkins (OSS and CloudBees Enterprise)

VERSION CONTROL: Subversion and Git, Github, Bitbucket, GitLab

TESTING: Various unit/functional/behavioral testing frameworks such as JUnit, PHPUnit, Mocha, Jasmine, Nightwatch, Selenium

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, automated unit and functional testing
- Linux systems administration
- Version control, branching models such as feature branching, GitFlow
- Experience with various design/architectural patterns and programming paradigms such as MVC, Procedural, OOP, Event-driven, Reactive
- Authentication standards and protocols: SSO, SAML, OAuth 1/2, LDAP, OpenID
- SaaS, PaaS, and IaaS practices, as well as service-oriented and microservice architectures
- Platform architecture and development planning via containerization, automated provisioning, immutable and/or idempotent infrastructure, scaling, and for the sake of continuous integration/delivery/deployment
- Agile team and XP experience

PROFESSIONAL EXPERIENCE

ROCKHOLLA

CONTRACT DEVELOPER, DEVOPS CONSULTANT

2015 – present

COLORADO, USA

Currently working in development and devops-related roles for various clients and employers. Some notable ones over the last few years:

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

[And here's a little more detail on what I've been up to recently, including some personal OSS projects](#)

A HUNDRED YEARS

CONTRACT DEVELOPER AND CONSULTANT

2014 – 2015

LOS ANGELES, CA

- Led design and planning for 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 (SINCE ACQUIRED BY [SPIGIT](#))

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 LAMP stack, JavaScript, single-page, and custom internal and external tool design/development
- Successfully met standard agile 2-week stable release cycles throughout the course of this role
- 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
- Led Ruby on Rails and Solr development for the University's Academic Commons project
- XML and Java object-oriented work to support automatic generation of online publications using provided publisher XML data

ACTKNOWLEDGE

2009 – 2011

FLEX/PHP APPLICATION ARCHITECTURE AND DEVELOPMENT

NEW YORK, NY

- Designed and developed an HTTP API, 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 a number of 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
- Automated the conversion of 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

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, automating the translation and insertion of over 1 million records, a mission-critical effort to keep the system stable and capable of growing
- 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 simple, custom CMS

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 Point-of-sale system for a local bookstore, including peripheral integration such as cash drawers and credit card readers, as well as handling everything from software maintenance to server and system administration; a lot of long nights at this one, but with a lot of learning

UNIVERSITY OF GEORGIA — PRATT LAB

2002 – 2003

PROGRAMMING, BIOINFORMATICS

ATHENS, GA

- Improved the performance of Oracle database queries for The Pratt Lab, a research facility focused on gene discovery

UNIVERSITY OF GEORGIA — FRESHMAN COLLEGE SUMMER EXPERIENCE

2002

APPLICATION DEVELOPMENT

ATHENS, GA

- Used Visual Basic and Microsoft Access to build an app to allow Freshman College Summer Experience participants to register for an array of orientation classes during the program

CERTIFICATIONS

- [CloudBees Jenkins Engineer](#) (December 2017, No expiration)

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.