Charles H. Hudson

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Overview

I am a Software Engineer with nearly two decades of experience, performing full-stack development with a focus on user experience engineering. I have an extensive background, having worked in many industries and on various applications.

While working on a project, my goal is to find the appropriate balance between performance and maintainability, using a number of organizational techniques and coding methodologies I've gathered over the course of my career. I carefully consider many variables, such as team size and distribution, project size, scope, lifetime, and reuse across projects. I am a proponent of mentoring through code reviews and part-time pair programming, test-driven development, and the use of agile methodologies when well-tuned to fit the organization.

Current & Preferred Skills

Back-End Stacks

Ruby
- Rails
- Sinatra
- Padrino

JavaScript
- Node.js
- Express.js
- Babel
- Gulp

Python
- Django
- SciPy

Elixir & Phoenix

Databases
- PostrgreSQL
- MySQL
- SQLite
- MongoDB

Front-End Stacks

Markup
- HTML5
- SVG
- Microdata & JSON-LD
- WAI-ARIA
- Section 508 Compliance

CSS
- Responsive Design
- CSS 2.1 & CSS 3
- Sass/SCSS
- Bourbon
- Singularity.gs & Breakpoint

JavaScript
- AngularJS
- Redux
- React
- Vue.js
- d3.js
- Webpack

Development Environments

Operating Systems & Containers
- macOS
- Ubuntu
- CentOS
- Docker & Docker Compose

Code Editors
- Vim
- MacVim

Source Management & Tools
- Git
- TravisCI
- Code Climate

Graphic, UX & Production Design
- Sketch
- Adobe CS
- Pixelmator & Autodesk Graphic
- GIMP & InkScape
- ImageMagick

Work Experience

11/2014 - 10/2016

ZestFinance

Lead Software Engineer

Built an AngularJS loan application using HATEOAS principles to allow updates via back-end capability information. Helped design APIs to support various facets of the loan application process. Created front-end build systems utilizing various Node-based tools for a number of application types. Authored a lightweight JSON-based HATEOAS-enabled communication protocol based on HAL, as well as HATEOAS extensions for JSON-API. Designed and built a Business Intelligence pipeline, and integrated New Relic data, for use by business analysts. Championed well-received cultural institutions to help further facilitate mentoring and knowledge-sharing, such as the "Mob Code Review."

Server-side:	Ruby, Rails, Hypermedia ReST APIs (HAL & JSON-API), MySQL, Redis, Sidekiq, Javascript (ES2015), Node, Karma, Jasmine, Mocha/Chai, Webpack, Gulp, Grunt, R, Shiny, Docker
Client-side:	HTML5, SVG, CSS3, Slim, Jade/Pug, SASS, Bourbon, Typekit, Javascript, AJAX, Angular, Moment, React, Redux, Webpack
Dev Environment:	MacOS X, Git, Docker, Dyson, Nginx, VIM, Photoshop, Illustrator, Sketch, Sauce Labs

07/2013
-
10/2014

Logical Reality Design
Independent Contractor/Software Engineering

After taking time to travel, I began contracting independently with LRD on various client projects. Projects included an internet ad service platform, and a time tracking and invoicing system. I've also taken time to work on various personal projects, as well.

Server-side: Ruby, Rails (RoR), MongoDB
Client-side: HTML5, CSS3, HAML, SASS, Compass, Javascript, AJAX, jQuery, jQuery UI
Dev Environment: MacOS X, Git, Apache, Passenger, VirtualBox, MacVIM, Photoshop

03/2010
-
04/2013

YP.com
Senior Software Engineer/UI Specialist

Collaborated with the User Experience and Product Management teams on nearly every page, feature, and facet of YP.com and other corporately-held properties. Arranged client-side code reviews and mentoring sessions with other developers, so they could more effectively work on a large, aging, and rapidly changing front-end codebase.

Server-side: Ruby, Rails (RoR), Web Services (SOA), Radiant CMS (contributed)
Client-side: HTML5, CSS3, HAML, SASS, Compass, Javascript, AJAX, jQuery, jQuery UI
Dev Environment: MacOS X, Git, Apache, Passenger, VirtualBox, MacVIM, Photoshop

12/2007
-
03/2010

Los Angeles Times/Tribune Company
Senior Software Engineer/UI Specialist

Worked with Product Management and Graphic Design on various sites, sub-sites and integrated feaatures across LAT and Tribune properties. These sites and applications included a photography site with integrated authoring tool, an online classifieds site with e-commerce and integration to print systems, an article server, a "topic" directory system, and more.

Server-side: Ruby, Rails (RoR), ActiveRecord, ActiveResource
Client-side: HTML, CSS, HAML, SASS, Javascript, AJAX, Prototype.js, Script.aculo.us, jQuery
Dev Environment: MacOS X, Subversion, Parallels, TextMate, Aptana Studio, Photoshop

09/2006
-
11/2007

Sony Pictures Entertainment (Alden Technologies)
Software Engineer

Contract-to-hire conversion: 03/2007

Helped create a secure content/document management system. Designed and developed the entire front-end, user experience, and look & feel, with input from subject matter experts. Developed the front-end, full-stack (both front-end and server-side), and assited in the development of the data layer.

Server-side: WebLogic Portal, J2EE, Java PageFlows, JSP, Spring, Hibernate, Oracle DB, Stellent
Client-side: XHTML, CSS, Javascript, AJAX, Dojo Toolkit
Dev Environment: Windows XP, VSS, Eclipse, Photoshop, Illustrator

01/2006
-
09/2006

World Fuel Services, Inc. (Daniel Allen & Associates)
User Interface Developer/J2EE Web Developer

Created the user experience and core graphic design to be used across all corporate intranet applications. Developed much of the user interface, full-stack, for several intranet applications. Assisted developers working on various tasks. Guided developers with regard to standards, practices, and helpful tips & tricks.

Server-side: J2EE, JSP, Struts, Struts Validator, AjaxTags (contributed), Spring, iBatis, SiteMesh, Oracle DB
Client-side: XHTML, CSS, Javascript, AJAX, Prototype.js, Script.aculo.us, Yahoo!UI
Dev Environment: Windows XP, CVS, Tomcat, Eclipse, SQL Navigator, Photoshop, Illustrator

05/2004
-
01/2006

Naval Air Depot CMA (Robert Half/Baywood Technologies)
User Interface Designer & Developer/J2EE Developer

Designed and developed, full-stack, the user interface to the Time & Attendance (TAA) system for the US Air Force and the US Navy. Developed standards, 508 compliance guidelines, code snippets, and other documentation to train and assist junior developers. Assisted back-end developers with integration and minor data-related tasks.

Server-side: WebSphere (WSAD), Struts, Struts Tiles, Struts Validator, JSP, Servlets, iBatis
Client-side: XHTML, CSS, Javascript, AJAX
Dev Environment: Windows XP, VSS, Tomcat, Eclipse, Fireworks

Extended Work History

01/2004	**RecruitMax, Inc./Vurv**
05/2004	*Software Engineer*

Created default "skin" for the flagship product. Updated both server-side and client-side code for 508 accessibility compliance. Wrote accessibility guidelines, complete with code snippets and examples.

Platform: CF MX

10/2003	**Starwood Vacation Ownerships (TekSystems)**
12/2003	*User Interface Designer & Developer/J2EE Developer*

Designed and helped develop the front-end to a customer history and direct-marketing response application that incorporated "Do Not Call" provisioning capabilities.

Platform: Java, Struts

03/2003	**Law Communications LLC (independent)**
07/2003	*Web Developer/Graphic Designer*

Designed and developed web marketing campaigns, branding, logos and brochures for various law firms.

Platform: Adobe, Macromedia, PersonalHomePage (acronym) Hypertext Preprocessor

01/2003	**RxStrategies, Inc. (ProjectCC)**
03/2003	*Web Developer*

Designed and developed the user interface of a Web-based drug pricing and prescription writing application for use in community health centers.

Platform: Java, Struts

09/2002	**Blue Cross Blue Shield of Florida (Modis)**
12/2002	*Web Developer*

Designed and developed a Web-based HIPAA training course and certification system with reporting integration.

Platform: CF MX, Flash

11/2001	**Blue Cross Blue Shield of Florida (Modis)**
04/2002	*Web Developer*

Worked on a team to develop Flash-based tutorials. Created its help system. Performed minor graphic design work.

Platform: CF MX, Flash

12/2000	**Creative Impact Communications**
05/2001	*Web Developer/Production Artist*

Produced and developed client projects, including websites and email campaigns. Replatformed the corporate website, including the intranet and extranet sales/customer management system.

Platform: J2EE

08/2000	**MortgageFlex (Matlen Silver)**
09/2000	*Markup Specialist/Javascript Programmer*

Created HTML pages and forms to match existing desktop product. Translated and programmed various mortgage and finance-related calculators.

Platform: HTML, Javascript

03/1999	**Website Pros**
06/2000	*Web Production Designer*

Helped spearhead various products and services, including e-commerce development, template design and general web development. Performed various other tasks, from copywriting and proofreading to market analysis.

Platform: Apache, Perl/CGI, HTML, Javascript