ERIC SHIELDS

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Job Search Details:

Objective: To leverage my expertise in JavaScript, HTML, CSS, and related technologies to make the world more sustainable, reduce plastic waste, and fight for equity.
Citizenship: **US Citizen**
Desired Job Title: Front End Engineer
Work Experience: *13 Years Web Development and 2 Years Software Development Related Experience*

Education:

ROCHESTER INSTITUTE OF TECHNOLOGY   GRADUATED: MARCH 7, 2007
Bachelor of Science in Computer Engineering   ROCHESTER, NY

Employment History:

FRONT END ENGINEER II   January 2019 - May 2022
Amazon Web Services - Service Catalog   *Seattle, WA*

- Worked in full Agile process, including all the standard rituals and task management methodologies; led the team retrospective and demo rituals
- Led launch of Service Catalog console in the second US Government special region
    - Previous government region launch was completely manual. This launch incorporated and adapted all the automated processes the team worked on for public region launches
    - Made extensive updates to the region launch process, helping to reduce the time to launch a new region by over 50% and greatly assisting in a future launch in China
    - Created a project template that would automatically create tasks, which prompted the org Principle TPM to ask why all the teams weren't doing the same
- Assisted in migrating the entire console from AngularJS 2.x to current ReactJS + Redux
    - Complete rewrite of the console from scratch; old console code was able to be 100% deleted!
    - Migrated from a mishmash of design systems to the system being adopted AWS-wide
    - Upgraded to modern development techniques and systems, such as webpack, NPM, TypeScript, and Babel
    - Upgraded JS unit test framework from casperJS to phantomJS and jest
- Led the team's console analytics research and integration
    - Researched metrics platform options and how they were handled in the old console
    - Found and corrected years-old bugs in the original implementation
    - Created system to dynamically add analytics to the new console
    - Studied the React component life cycle in depth to determine accurate "customerready", route load, and time on route metrics
    - Helped analytics team diagnose and fix some bugs in their v2 tracker
    - Integrated v2 of the analytics tracker into the console, including how to transition without losing context from v1 data
- Led the migration of all console infrastructure from Amazon Linux 2012 to Amazon Linux 2
- Participated in complete ops for the console, including oncall rotation, infrastructure management, security patching, metrics dashboard analysis, etc
- Created extensive documentation of projects and team processes (code and CR guidelines, analytics approach and implementation, project templates, scrum rituals, etc)
- Performed extensive and in-depth code reviews, earning the title of "team code gatekeeper"; especially during the migration

WEB DEVELOPMENT ENGINEER II   October 2017 - January 2019
Amazon.com - Search Design Technology   *Seattle, WA*

- Created an interactive prototype of a new widget design
- Key figure in the development, release, and ongoing support of the Tapestry internal documentation website

- Assigned project in Nov 2017 with a phase 1 deadline of 12/31. Delivered entire prototype website
- Built on an existing Java/Horizonte platform built by a couple SDEs
- Built all of the (internal) customer facing UI, as well as the macro system for use in the CMS editor
- Leveraged AWS features for database monitoring, such as Cloudwatch and Lambda
- Required extensive collaboration with designers, engineers, and managers for both the IA and feature set
- Forced by circumstances to learn aspects of PM, engineer, designer, TPM, and content architect roles
- Provided direct customer support in "daytime on-call" format
- Work was about 50% JavaScript, HTML, and CSS, 20% JSP, and 30% Java

WEB DEVELOPMENT ENGINEER II (SDE)   October 2015 - September 2017
Amazon.com - Search Business and Hardlines Support   *Seattle, WA*

- Despite being hired as a WDE, I worked primarily as an SDE in Java and Datapath
- Altered display of Amazon Business and medical ASINs based on customer memberships and ASIN properties
- Performed extensive Operational Excellence tasks to support Business and Hardlines verticals
- Helped create a simple internal website in Ruby on Rails
- Tech lead for the Comparison View experiment, which surfaces the top 4 product specs in an easy-to-compare-between-products view
  - Wrote code at every level from the data store (datapath) through the platform (Java) to the template (JSP) and UI (HTML/CSS)
  - Extensive catalog data cleanup was required, but the feature eventually launched for specific categories and is being expanded

FRONT END DEVELOPER   November 2010 - October 2011
Synacor, Inc. - TV/Video Team   *Buffalo, NY*

- Worked very closely with the other two primary members of the TV Front End team to update the Video channel to Primetime v1.0, Primetime v2.0, and part of Primetime v2.2 (Charter Video On Demand)
- Wrote close to 75% of the new JS code for Primetime 2.0 and 95% of the HTML/CSS
- Primetime 2.0 was a ground-up rewrite of the video channel, covering 95% of the codebase
- Primetime 2.0 utilized the Mustache/Ctemplate templating system, extensive jQuery, and jQuery UI
- Work was performed in Sprints according to a slightly modified Agile development process
- Required extended browser support, including IE7-9, Firefox3.6, and the latest Firefox, Chrome, and Safari

Personal Projects:

THIS RESUME (ONGOING)
As a way to be a little extra creative, this resume has been created with HTML and CSS, instead of the standard Word document. The goal is to make it look and feel very similar to viewing a Word doc, while simultaneously providing a current code sample (if submission of a zip file is allowed) and increasing the power of the tools available to create and present the resume. Fallbacks for old IE and special print styles help ensure usability consistent with Word.

PERSONAL WEBSERVER (ONGOING)
After Website Design and Implementation in college, it seemed appropriate to have a personal website. While the site itself never really developed a purpose, it has served as a portfolio, albeit not frequently updated (http://www.coldcandor.com/webpages.php), and a testbed for ideas and functional practice. The site is now hosted on a server located in my living room, with all steps to create a web server (VirtualBox, Linux Server, Apache, Firewall and Port Forwarding, DDNS, SELinux extended permissions, custom user groups, IRC server, PHP, MySQL, Git, and so on) having been completed personally. The site has numerous subdomains, a beta version, everything important versioned in Git, and has seen numerous server migrations including Ubuntu Server, Debian, and CentOS.

LAUNCH OF INKIND (2015)
While not a personal project specifically, this was done primarily as volunteer work. I assisted with front end work for the launch of the website InKind, sadly now defunct. Their aim was to serve non-profits with a Kickstarter-like system that gets people donating to contribute actual items rather than cash.

MINECRAFT ENCHANTING SIMULATOR (2012)

A project to both analyze and understand the Minecraft enchanting algorithm, and to utilize JavaScript coding concepts learned at Synacor. It makes heavy use of jQuery. Having not had time to finish it fully (and it now being so out of date as to be useless), it lacks a pretty UI and input validation. The simulator is hosted at http://www.coldcandor.com/minecraft.php.

GUILD WEBSITE (2007)

This was a self-motivated project to create a highly functional website for a World of Warcraft guild shortly after I first learned both PHP and CSS. Written in PHP, XHTML, CSS, and small amounts of JavaScript, the site caters to the many needs of a guild, including an interactive calendar, a screenshot uploader and viewer, a registration and login system, announcement system, and more. The website is located at http://freedomschoice.coldcandor.com, preserved as it was in 2007, except that the database was lost and those pages now error. The site took approximately 3 months from inception to final.

Skills:

- Programming Languages (In order of skill from most to least)
  - JavaScript/JSON, TypeScript, HTML/CSS, Java, HTML5/CSS3, PHP, Regular Expressions, XML, Perl, SQL
- Frameworks
  - ReactJS, Jest, Redux, ESlint, jQuery, Mustache/Ctemplate, Bootstrap, Less, Sass/SCSS, Node.js, Pure
- Applications
  - Git, vim, NPM, WebPack, Babel, Apache, Grunt, Composer
- Operating Systems
  - Windows (3.1 through 10), Linux (Amazon Linux 2012, Amazon Linux 2, Ubuntu, CentOS 7), Android, Mac OSX

Honors and Activities:

- RIT Presidential Scholarship
- Member of People to People International Student Ambassador Program since 2000
- *Community Service Head* of the RIT House of General Science, 2002-2004
- Hobbies include CrossFit, running, hiking, puzzles, coding, games of all types, and reading/audiobooks

REFERENCES, COLLEGE TRANSCRIPT, AND LETTER OF RECOMMENDATION AVAILABLE ON REQUEST. PLEASE VISIT MY LINKEDIN PROFILE AT HTTPS://WWW.LINKEDIN.COM/IN/ERICRSHIELDS FOR ADDITIONAL INFORMATION.