

ERIC SHIELDS

FRONT END ENGINEER | WEB DEVELOPMENT ENGINEER | WEB DEVELOPER

I have **over 10 years of Web Development Front End experience**, including work on applications running at scales from 1 transaction per minute to over 1 million transactions per second, as well as running on a range of client systems ranging from a state-of-the-art desktop PC in the US on gigabit fiber, to old Android flip phones in India connecting over 2G.

SKILLS

Languages and Frameworks

- ✓ JavaScript
- ✓ React.js
- ✓ TypeScript
- ✓ HTML & CSS
- ✓ Java

Testing and packaging

- ✓ Jest
- ✓ React Testing Library
- ✓ ESLint
- ✓ npm

OS and Productivity

- ✓ Linux
- ✓ git
- ✓ Windows; MS Office
- ✓ Slack
- ✓ IntelliJ

CONTACT

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EDUCATION

Bachelor of Science in Computer Engineering

Rochester Institute of Technology
Rochester, NY

EXPERIENCE

FRONT END ENGINEER II

Amazon Web Services - Service Catalog Console

2019 - 2022

Seattle, WA

Transferring to AWS in search of a job that actually stayed focused on the front-end, I found the Service Catalog team. My role grew steadily and included a promotion from WDE to FEE. It covered application development, agile, code lifecycle, documentation, some server-side code, along with complete ops for the console, including oncall rotation, infrastructure management, security patching, metrics dashboard analysis, etc. I also acted as partial scrum master.

- Led launch of Service Catalog console in the second US Government special region
 - Made extensive updates to the region launch process, which helped reduce the time to launch a new region by over 50% and greatly assisted 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
- Assisted in migrating the entire SC 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! (tens if not hundreds of thousands of lines of code)
 - Upgraded to modern development techniques and systems, such as webpack, NPM, TypeScript, ESLint, and Babel
 - Upgraded JS unit test framework to Enzyme, jest, and React Testing Library
- Led the team's console analytics research and integration, including helping the analytics tracker team solve several core bugs
- Completed the complex migration of all SC console infrastructure from Amazon Linux 2012 to Amazon Linux 2
- Created extensive documentation of projects and team processes (code and CR guidelines, analytics approach and implementation, project templates, scrum details, etc)
- Performed extensive and in-depth code reviews, earning the title of "team code gatekeeper"; especially during the migration

Core skills: JavaScript, React.js, TypeScript, Agile, Java, Cross-functional collaboration, Jest, NPM

WEB DEVELOPMENT ENGINEER II (DESIGN TECHNOLOGIST)

Amazon.com - Search Design Technology

2017 - 2019

Seattle, WA

After 2 years working server-side, I moved to the design team in pursuit of front-end work. My role primarily focused on the creation and support a stand-alone website to display documentation for a new design system.

- Assigned project as solo dev in Nov 2017 with a deadline of 12/31. Delivered entire prototype website, consisting of over 20 pages of semi-static markdown content across several distinct designs (served via Java/Horizonte server built by another team).
- Built all the (internal) customer facing UI, as well as the macro system for use in the CMS editor
- Required extensive collaboration with designers, engineers, and managers for both the IA and feature set
- After the prototype, The Java developers were re-tasked and I shifted to serving as aspects of PM, engineer, designer, TPM, and content architect roles and providing "daytime on-call" support across the full stack

Core skills: HTML, CSS, Cross-functional Collaboration, JavaScript, Java, and JSP

WEB DEVELOPMENT ENGINEER II (SDE)

Amazon.com - Retail Search Customer Experience

2015 - 2017

Seattle, WA

Following a lead from an old co-worker, I took a dive and moved cross-country to join a new team at Amazon. My role focused on supporting the Amazon Business and Hardlines verticals by codifying requests from those teams into the Amazon Retail Search results page. I had 2 memorable projects.

- Altered display of Amazon Business and medical items based on customer memberships and item properties
 - Required maintaining a complex logic tree of display possibilities
 - Allowed at least several hundred thousand items to have better information and click-to-action options based on the item assignment and customer's membership
- Tech lead for Comparison View, which surfaces the top product specs for an item directly in the search results
 - Wrote code at every level from the data store (datapath) through the platform (Java) to the template (JSP) and UI (HTML/CSS)
 - Required extensive collaboration with the catalog, recommendations, and hardlines teams, along with the PM

Core skills: Java, JSP, Cross-functional collaboration, Datapath, HTML, CSS

CLIENT DEPLOYMENT ENGINEER

Synacor - Client Deployment Team

2011 - 2014

Buffalo, NY

After being pulled onto the Client Engineering team due to some bureaucracy, my role's focus shifted to working with internal client managers to handle client requests and product deployments, as well as working on internal projects to improve portal deployment speed and accuracy. Below points apply to the only project relevant to current skills, the Rapid Deployment Portal

- Using the latest client launch as a template, removed all the cruft and simplified the files as much as possible. They then became the base for the custom templating language written by a co-worker.
- Championed the system and educated the rest of the company in its existence and usage
- Performed most of the first 10 or so launches with this system solo, a normal launch required several techs
- Reduced the average time-to-launch for small ISPs 2 weeks to 2 hours

Core skills: Communication, PHP, JavaScript

FRONT END DEVELOPER

Synacor - TV/Video Team

2010 - 2011

Buffalo, NY

After being unexpectedly pulled onto the TV/Video team, I worked very closely with the other two primary members to update the Video channel to Primetime v1.0, Primetime v2.0, and part of Primetime v2.2 (Charter Video On Demand). The portal was written in JavaScript with a single PHP controller of a few dozen lines. This was my first significant experience in JavaScript.

- Primetime 2.0 was a ground-up rewrite of the video channel, covering 95% of the codebase
- Transformed code from 2 4000-line JS files to a proper framework of small files
- Wrote close to 75% of the new JS code for Primetime 2.0 and 95% of the HTML/CSS
- Required full-range browser support, including IE7-9, Firefox3.6, and the latest Firefox, Chrome, and Safari

Core skills: JavaScript, jQuery, Mustache/ctemplate templating system, jQueryUI, Agile