ERIC SHIELDS

FRONT END ENGINEER

CONTACT

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OBJECTIVE

I dream of a position where I can use my skills as a Front End Engineer to **make meaningful impact on the world** in the areas of Sustainability, Waste reduction, and Ethics/Equity while working with a **diverse** team of people with similar goals.

I have **10+ years of Web Development experience**, including 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
- ✅ JSON
- ✅ React.js
- ✅ TypeScript
- ✅ Java
- ✅ PHP

Testing and packaging
- ✅ Jest
- ✅ React Testing Library
- ✅ ESLint
- ✅ git
- ✅ npm
- ✅ webpack.js

OS and Productivity
- ✅ Linux
- ✅ Windows
- ✅ Slack
- ✅ MS Office

EDUCATION

Bachelor of Science in Computer Engineering

EXPERIENCE

FRONT END ENGINEER II
Amazon Web Services - Service Catalog

January 2019 - May 2022
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 to Enzyme, jest, and React Testing Library
- 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
Amazon.com - Search Design Technology

October 2017 - January 2019
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)
Amazon.com - Search Business and Hardlines Support

October 2015 - September 2017
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

Engineering

Rochester Institute of Technology
Rochester, NY

Graduated: March 7, 2007

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
Synacor, Inc. - TV/Video Team

November 2010 - October 2011
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

- Performed extensive Operational Excellence tasks to support Business and Hardlines verticals
- Helped create a simple internal website in Ruby on Rails