

# Autumn Fjeld

· SOFTWARE ENGINEER ·

San Francisco, CA

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*Seeking a creative front-end web development role.*

## Education

SOFTWARE ENGINEERING IMMERSIVE IN JAVASCRIPT & FRAMEWORKS

*Hack Reactor, San Francisco*

PH.D. & M.S. IN MATERIALS SCIENCE AND ENGINEERING

*University of California at Berkeley*

B.S. IN CHEMICAL ENGINEERING

*Arizona State University*

## Experience

### Software Engineer - TalentBin by Monster

*San Francisco, CA*

PASSIVE RECRUITING SOFTWARE

*April 2016 - present*

- Phasing out legacy code (PHP, Yii, YUI) and architecting new code patterns with modern frameworks (Ractive, Backbone, Single Page App Structure)
- Built chrome extension to scrape data from host site and run an app in a sandboxed iframe within extension frame.
- Helping a growing team migrate from unstructured, startup culture to a well-defined agile-scrum work process. Creating documentation, proactively recommend improvements in communication and tools (git, slack, zapier, etc.).
- Supervised two computer science interns.

### Senior Front End Developer · Ziploop

*Orinda, CA*

MOBILE SHOPPING ORGANIZER AND RETAIL PORTAL FOR RETAILER TO CONSUMER REWARDS

*April 2014 - April 2016*

- Designed and implemented front-end components of mobile consumer app and two enterprise sites in AngularJS framework. Worked closely with President to design UI/UX.
- Collaborated with founding CTO to architect components, maintain build processes (grunt, gulp, git, unixscripts), choose frameworks, modules, and pushed to keep a clean, maintainable code base.
- Refactored many parts of chaotic, legacy codebase to maintainability and sanity (SASS, Angular best practices); solved load time problems for large list of images, optimizing quality and performance; continually strove for pixel perfect UI/UX.
- Managed collaborations between lead developer and non-technical president, supervised two junior engineers and an assistant to develop her technical graphic design skills.

### Student · Hack Reactor

*San Francisco*

PROJECT BASED SOFTWARE IMMERSIVE COURSE

*January 2014 - April 2014*

- Part of a team contracted to develop prototype for commercial app. Designed back-end schema in Firebase, chosen for Simplelogin authentication, direct database reference binding.
- Built app in AngularJS architecture, ported to mobile with Cordova and styled with Ionic. Careful attention given to AngularJS controller and service modularity to create efficient team workflow.
- Built a d3.js interactive force directed graph as an AngularJS directive, allowing users to click on a url-node to create an expansive node map of Wikipedia articles. <http://wikiviz.herokuapp.com>

### Technical Support Engineer – NUMECA International

*San Francisco, CA*

ENGINEERING SUPPORT/CONSULTING & BUSINESS DEVELOPMENT

*November 2010 - July 2013*

- Provided consulting support to engineers at Boeing, Honeywell, etc. on using NUMECA's computational fluid dynamics software tools, delivering solutions in meshing, solver setup, and post-processing.
- Improved fluid dynamics and meshing software as an integral part of the feedback loop for identifying and troubleshooting software bugs, user-friendliness, and scientific accuracy issues.
- Created and delivered technical training webinars twice a month to NUMECA's user base.

### Freelance Editor for Scientific Papers

*Global*

EDITOR OF SCIENTIFIC MANUSCRIPTS FOR NON-NATIVE ENGLISH SPEAKERS

*2010 - 2014*

- Edited scientific manuscripts for non-native English speakers leading to publication in high profile scientific journals, including work for American Journal Experts, a global editing service for scientists.
- Built Joomla site (pre-web dev days) to advertise my services. Brought in business by advertising on Austrian websites.

## Post Doctoral Research – University of Leoben, Austria

*Leoben, Austria*

SIMULATION & MODELING OF METALLURGICAL PROCESSES

*2006 - 2010*

- Created a computational model of a large casting process to simulate flow and heat transfer phenomena for an Austrian steel making company.
- Expanded functionality of commercial simulation software with user defined functions in C and data processing scripts in scheme. Used Matlab extensively for data analysis. Tested feasibility of open source simulation framework, OpenFOAM.
- Defined experimental investigations for industry partner to get input and validation data for simulations.

## Fun Facts

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- Traveling and checking out the world is a must! Recent trips include the Republic of Georgia, Spain, Portugal, and Colombia.
- Love to read, explore San Francisco and the Bay, ride my bike, eat well and drink well.
- Started weekly German-learning conversational group for foreigners in Leoben, Austria. Keep up with my German via social groups and classes at local community college.
- Occasional sewer and creator of colorful clothes, jewelery, bags.
- Past volunteer experiences: tutor for Women Who Code, high school prep classes for underprivileged kids.