

# Autumn Fjeld

SOFTWARE ENGINEER · WEB DEVELOPER

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*Seeking a creative, challenging front-end or full-stack web development role in Sydney.  
I am American and have an Australian work visa.*

## Work Experience

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### Software Engineer - TalentBin by Monster

San Francisco, CA

PASSIVE RECRUITING SOFTWARE

April 2016 - October 2017

- Full-stack software engineer, with front-end emphasis. Built and maintained enterprise recruiting web application. Tech stack: MySQL, Java, PHP, Javascript (Backbone, Ractive).
- Promoted good design within our team, providing constructive criticism on our UI. Was engaged with product manager and design team in a major redesign of our site—learned about large scale redesign while offering a front-end engineer's perspective.
- Proposed new code patterns with modern frameworks to replace, or coexist with legacy code.
- Built a chrome extension app: a mini-version of our main site that pulls data from social network sites to match profiles in our db.
- Periodically worked on back end projects utilizing JAVA, Python, MySQL, AWS configuration.
- Was part of a growing team migrating from start-up culture to a well-defined agile-scrum process. I create documentation, proactively recommend improvements in communication and tools (git, slack, zapier, etc.).
- Supervised two computer science interns each summer, guiding them through the complexities of a large codebase and teaching about front-end web development.

### 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. Tech stack: Angular, Express, Mongo, Node. Worked closely with President to design UI/UX.
- Collaborated with founding CTO to architect components, maintain build processes (grunt, gulp, git, unix scripts), 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 a prototype for a 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 work-flow.
- Built [wikiviz](#), 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.

### 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. Defined experimental investigations for industry partner to get input and validation data for simulations.
- 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.

## Skills

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|-------------------------|---|
| <b>Languages</b>        | Javascript, HTML/CSS, PHP, JAVA, Python   |
| <b>Front-end</b>        | React, Angular, Backbone, JQuery, Jade, Mustache, Less, Sass, Stylus, Ractive, D3, Jasmine/Mocha, Cordova |
| <b>Back-end</b>         | Mongo, MySQL, Node, Express   |
| <b>Code/Build Tools</b> | GitHub, Gulp/Grunt, NPM, Webpack, CircleCI, IntelliJ, SourceTree  |
| <b>Design</b>           | Sketch, Illustrator, Photoshop, Imagemagick   |
| <b>AWS</b>              | Route53, SES, Lambda Functions, API Microservices, S3, Boto, Kibana                                       |

## Personal Projects

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### Freelance Website Project

My house

WEBSITE FOR RESEARCH GROUP AT UNIVERSITY OF CALIFORNIA, RIVERSIDE

May 2017 - present

- Building a static-ish site for a Computational Materials research group at the University of California Riverside utilizing AWS tools: hosted on S3, using API Microservices and lambda functions to handle dynamic content. [github.com/autumnfjeld/dralexgreaney](https://github.com/autumnfjeld/dralexgreaney)
- Technical goals for this freelance project include maximizing use of flexbox, using npm for all build steps, creating custom node scripts to compile pug templates and parse [bibtex](#) journal citations into JSON format.

### Online Design Course

Coursera.org

COURSERA'S GRAPHIC DESIGN SPECIALIZATION

March 2017 - present

- Improving my design skills. Currently enrolled in [Coursera's Graphic Design Specialization](#) created by California Institute of the Arts. Courses included Typography, Composition, Creative Iteration, and more.
- Capstone project will be to produce personal brand in poster, business cards, and website. Course progress is ongoing.

### My Website Resume

My house

AUTUMNFJELD.COM

2016 - present

- Built [autumnfjeld.com](https://autumnfjeld.com) from a pre-designed the HTML/CSS template and made it my own, which has been a great learning experience in design and layout. Broke up the HTML into pug files, storing my content as JSON to compile into a static site stored on AWS S3.
- Connected my email to this domain via Simple Email Service and wired up a Lambda function to email the form content from my API endpoint to myself.

## Education

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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

## Fun Facts

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- Traveling and checking out the world is a must! Recent trips include Cuba, Mexico, Republic of Georgia, Spain, Portugal, Colombia.
- Love to read, explore San Francisco (now insert Sydney), 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, jewelry, bags. I suppose if I didn't have to worry about money it would be a serious toss up between coding and fashion design.
- Past volunteer experiences: math tutor in San Francisco middle-schools that are targeted for at-risk students, tutor for Women Who Code, high school prep classes for underprivileged kids.
- Australia is the fourth continent on which I have lived. In order of appearance: Africa, Europe, North America, Europe, North America.