

# Christy Welsh

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## Full Stack Engineer

I am an excellent engineer and problem solver with a background in mathematics education and technical writing. I am seeking a software engineer role and would like to work on frontend, backend, or full stack projects. Over the past year, I took the initiative to complete a full stack curriculum based in Node.JS. This opportunity added web development to my experience as a tenured teacher with a credential that includes number theory and statistics. I am a perfect fit for computer programming because I am a logical thinker, organizational guru, and self-disciplined worker, always striving for excellence and efficiency in the details.

### Technical Skills:

#### Intermediate

HTML  
CSS  
JavaScript (ES6, Async, jQuery)  
Node (React, Express, NPM)  
SQL (MySQL, PostgreSQL)  
MongoDB, Mongoose  
Git (GitBash, GitHub)

#### Beginner

Python  
Bootstrap, Material UI, etc.  
Heroku  
AWS (EC2, S3, RDS)  
Authentication (Passport, OAuth)  
Payment Processing (Stripe.JS)  
Webpack

#### Familiarity

React Native  
Xcode  
Objective-C  
Android Studio  
Java  
Babel  
Agile Development (Scrum)

Chocolatey  
Home Brew  
Postman  
Data Science  
(NumPy, PyQT,  
PyCharm)

## Projects

### Rainy Day Blog

- A full stack Node app where users send CRUD requests to manage personal blogs
- Frontend created with React Router and HTML & styled with CSS and Bootstrap
- RESTful backend created with Express.JS and SQL storage, including a many-to-many database and stored procedures
- Authentication with secure & persistent login using Passport.JS and route protection
- Deployed using AWS; EC2, S3, and RDS

### Ethos

- A full stack MERN app that creates an interactive and informational experience
- A click of a button retrieves and displays data from a third party API
- The server collects feedback metrics with users' 'thumbs up' or 'thumbs down' vote on each display
- Frontend created with React, HTML, and Material UI
- Backend created with Express.JS and MongoDB

For each project above, I problem solved hundreds of issues that arose in each workflow stage by leveraging multiple resources, including independent debug, version testing, research, collaboration on sites such as Stack Overflow, and discussion on development forums. See code, demo videos, and more at [github.com/christycakes](https://github.com/christycakes)

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## Experience

**Tenured Mathematics Teacher**, Castro Valley High School 2015-2017

- Led students to math standards mastery in new curriculum and evolving state mandates by evaluating individual learning needs, collaborating with parents and support staff, and delivering lessons one-to-one, in small groups, and in whole class instruction
- Managed over 100 students per year and maintained a positive, encouraging, and safe classroom environment of diverse youth; from at-risk to high achieving, from a wide range of socio-economic backgrounds
- Improved student engagement by integrating educational technology tools such as apps on iPads, ebooks, graphing calculators, Desmos, etc.

**Mathematics Teacher**, Clayton Valley Charter High School Spring Semester, 2015

- Quickly established positive relationships, stepping in to lead classes that had experienced an inconsistent fall semester
- Remediated students' deficient math skills by designing and delivering interactive lessons and by collaborating with parents, administrators, fellow teachers, and subject teams, resulting in nearly 90% of student advancement

**Special Education Instructional Aide**, Foothill High School 2011-2014

- Supported subject course and grade level advancement by instructing students with learning disabilities in mainstream high school curriculum
- Led students to meet short and long term goals by communicating with others on their team (parents, teachers, administrators) and by organizing academic materials for dozens of students each year
- Led individual students to solve problems related to academic, social, and behavioral challenges

**Technical Writer** 2007-2013

- Assisted in publication of "Get Fit Stay Well," (a college health science textbook by Janet Hopson, Pearson Publishing Ltd) by analyzing and organizing journal articles from database searches; 2011-2013
- Published news stories on deadline for Stanford News Service in science, technology, psychology and business in collaboration with Stanford researchers and the News Service's editor and photographers; 2009-2010
- Assisted in production of business proposals, legal reports, and essays as a line editor, proofreader, and copy editor for various freelance projects; 2007-2011

## Education

CSU Hayward, **Bachelor of Arts Degree**, 2005, Summa Cum Laude

San Francisco State University, **Certificate in Technical and Professional Writing**, 2009

Patten University, **Mathematics Teaching Credential**, 2014

Covalence, **Full Stack Web Development**, 2018

*Covalence Courses*: How the Web Works, GitHub, HTML, CSS, Bootstrap, JavaScript (Modern, Intermediate, Object Oriented), the DOM, jQuery, React.JS, APIs, React Router, Node.JS, Express.JS, Databases, SQL, Authentication, Password Security, Hashing & Salting; May-Nov 2018

### Other Web Development courses:

**Udacity**, Introduction to Python, Programming Foundations with Python, Git & GitHub, Intermediate Java, Intro to JavaScript, Intermediate JavaScript, Asynchronous JavaScript Requests, ES6 JavaScript, April to July 2018

**Udemy**, AWS Concepts, MongoDB with Node & Express, MongoDB Essentials, Hands on Python, April 2018 to Feb 2019

**CodeCademy**, Python, Java, React.JS, Express.JS, April 2018 to March 2019

**MongoDB University**, MongoDB Basics, MongoDB for JavaScript Developers, Feb-March 2019

**EdX/DataCamp/Microsoft Virtual Academy**, Python for Data Science (April 2018), Algorithms & Data Structures (Oct 2018)