ALEX BILLS
FULL STACK WEB DEVELOPER

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SKILLS

STRONG: Ruby, Ruby on Rails, React.js, Javascript, jQuery, HTML/CSS, AJAX, Active Record, Git
EXPERIENCED: Bootstrap, Typescript, Sinatra, Jasmine, RSpec, PostgreSQL, Devise, SQL

SOFTWARE ENGINEERING APPLICATIONS

Message In A Bottle - Lead Software Engineer   2016
A journaling app promoting user introspection and focused writing through sending and receiving anonymous journal entries
- Created **Rails API** and **React.js** front-end to build multi-functional single page web app
- Designed streamlined **UI/UX** to promote prolonged user engagement without needing to navigate away from main app
- Built **RSpec** test suite to unit test database associations, models and controllers for expected outputs as well as account for corner cases

Battleboats - Software Engineer   2016
A realtime peer-to-peer Battleship game where users can create their fleet and then destroy their friend's
- Implemented short polling for **asynchronous** real-time user gameplay across networks
- Generated user customizable boards through **jQuery** DOM manipulations
- Designed **UI/UX** for modern, streamlined gameplay

Shortstack - Software Engineer   2016
Shortstack offers users a forum to post articles, blogposts, or general thoughts that are then upvoted by their peers
- Implemented CRUD functionality with **jQuery/Javascript** for seamless UI/UX
- Designed complex **schema** and associations through **Active Record** to allow for user-content associations
- Employed asynchronous **AJAX** calls to update and create DOM elements based on user interactions

Real World Bingo - Lead Software Engineer   Dec 2017
Users create, share, and play 'real world' bingo cards with their friends, so the world becomes your game room
- Architected overall system design and implementation, using **React.js** components for performance and scalability
- Built **Rails API** to provide user authentication/session data, handle game logic, create **RESTful** routing, and manage **PostgreSQL** database
- Built **Jasmine** test suite to unit test React.js components for expected outputs as well as account for corner cases

EXPERIENCE

Codecademy, *Codecademy Advisor*, San Francisco, CA   2017 - Current
- Guide students through coding topics one-on-one, help debug code and pass tricky exercises, offer additional resources, track student progress
- Support engineering team through **git workflow** identifying and reporting bugs/areas of potential platform growth

Great Hearts Academies, *Teacher*, Scottsdale, AZ   2015 - 2016
- Taught History and Science for third grade, as well as breakout sessions for individual and small group tutoring on math, literacy, and spelling

Meem Library, *Circulation Assistant*, Santa Fe, NM   2010 - 2014
- Offered detailed knowledge of the collection to patrons, catalogued and maintained collection items, performed research for college staff/faculty

EDUCATION

Dev Bootcamp
Web Development 2016
- Intensive full-stack web development course, building modern web application through whole life-cycle
- Focus on building back-end APIs in Ruby/Rails and front-end web apps through Javascript/React.js

St John's College
BA Liberal Arts 2014
- Double Major in Philosophy and the History of Math and Science, double Minor in Classical Languages and Comparative Literature