James Kolsby

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Work Experience

1stdibs — 2018
Front-end Javascript Intern
Streamlined collaboration between Front-end and Design teams by simplifying and improving the internal style guide micro service written in Express, which deprecated over 200k lines from the component Git repository. Configured the Jenkins server to validate test files, compile a static Storybook, and deploy to an AWS S3 instance. Fixed bug in PHP Composer package which poorly decoded XML flat-file database.

CoLiberate.io — 2018
User Experience Designer (Contract)
Designed a utility for open-source hardware collaboration by reimagining project management, issue tracking, messaging, and cost analysis for maker projects, which led to VC funding and usage by 80k engineers at two New York City maker hubs.

Summerour Architects — 2017
Web Designer and Developer (Contract)
Overhauled architecture portfolio by organizing a set of high resolution images and implementing a static site generator for lazy-loading responsive images using Gulp and webpack, resulting in vastly improved scalability.

Columbia Student Life — 2016
Marketing Coordinator (Contract)
Headed design of social marketing materials and branding identity on a committee which produced over 16 marketing videos and reached over 30k interactions on social media.

Personal Projects

Choosy — 2018
Accomplished real-time bracket for voting on unlimited choices by implementing user accounts, tokens, and relational SQLite database on Python Flask server. Built React Front-end for displaying decision trees using Redux.

QuickSub — 2018
Created a system for efficient closed captioning with REST API in NodeJS using an Express server to generate audio waveforms and detect vocal activity in video upload streams.

Note CMS — 2015
Designed and built a jQuery plugin to edit any webpage and immediately deploy updates for web masters with dyslexia or vision impairment. Built PHP backend to handle and save DOM changes.

Periodic Table Calculator — 2013
Developed a profitable chemistry app in Objective-C for the iOS App Store by implementing UIKit gesture recognizers, which sold over 800 units over two years and three iOS versions of iOS.

Coursework

Columbia University — 2019
B.S. in Computer Science (3.45 GPA)

Programming Languages and Translators
Designed language for manipulating typed graphs and developed compiler in OCaml, Yacc, Lex, and Bash with LLVM code generation.

Advanced Programming
Implemented HTTP protocol and socket linking in C to handle images, videos, and static websites.