

Zack Carlson

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GitHub: github.com/zackcarlson

Portfolio: zackcarlson.github.io

TECHNICAL SKILLS

- **Proficient:** JavaScript, React, Redux, TypeScript, Angular 2+, Node.js, Express, MongoDB, SQL, PostgreSQL, MySQL, TDD, Jasmine, Mocha, Jest, Protractor, Travis CI, AWS, HTML5, CSS3, SCSS, Sketch, Figma, Invision
- **Exposure:** Python, Ruby, Java, Backbone.js, D3.js, ArcGIS, qGIS

WORK EXPERIENCE

Interactive Advertising Bureau | Front End Software Engineer | Remote 07/2019 - Present

- Designed and prototyped e-commerce site for 100+ member companies using JavaScript, TypeScript, Angular 2+, Figma, Invision, and Stripe API, projected to increase company revenue by ~\$100 - \$200k annually.
- Designed and built JavaScript and React mobile-first website that provides user advertisement data for targeting ads.
- Revamped UI/UX of internal engineering portal using Angular 2+ and CSS3 to increase user accessibility.
- Wrote 10+ unit tests for client-side components and fixed 30+ failing tests using Protractor resulting in 10% additional coverage of codebase.

NewCraft | Software Engineer (Contract) | Remote 05/2019 - 07/2019

- Developed 5+ client facing ecommerce and informatic applications utilizing JavaScript, ReactJS, and Redux, wireframing them with Sketch and Adobe XD CC, and saving company ~\$90K annually in UX developer costs.
- Optimized page load speed from 5000ms to 25ms (99.5% improvement) by implementing more efficient data structures to store, sort, and process Bitcoin data queries using JavaScript, Node.js, Express, and MySQL.

Galvanize | Associate Software Engineering Instructor | Remote 08/2018 - 07/2019

- Managed and mentored 400+ software engineers through over 100 hours of advanced software engineering training teaching computer science fundamentals, JavaScript, ReactJS, Redux, Node.js, and MongoDB.
- Conducted code reviews and live algorithmic, debugging sessions to ensure technical readiness, resulting in uptick of 50% student admission into Galvanize's top coding bootcamp (3% acceptance rate).

UCLA BRITE Center | GIS Data Engineer | Los Angeles, CA 10/2017 - 08/2018

- Created and managed RDBMs and geo databases of up to 1 terabyte of spatial data, used in statistical analysis and policy decisions within LA County urban planning department using Python, PostgreSQL, and ArcGIS.
- Designed and wrote complex spatial-ETLs with Python and ArcGIS ModelBuilder to load field data of tobacco advertisements near K-12 schools, which reduced the manual data entry by 200%.

EDUCATION

University of California, Los Angeles, B.A. Geographic Information Systems (GIS) 12/2017

PROJECT WORK

Google Keep Clone | Full-stack Engineer 2018-2019

A note-taking service that allows users to keep track of their ongoing thoughts, ideas, and plans.

- Optimized site responsiveness for 9 different devices with Bootstrap and CSS3; improved accessibility by 75%.
- Stored user note entries using MongoDB backend allocating up to 64 terabytes of data.

Volunteer Rocks | Full-stack Engineer 2018

Social platform that connects users to nearby volunteer opportunities and organizations.

- Transformed zip code data into geo-coordinates integrating Google Maps Geocoder API, Express Router, and MongoDB to filter volunteer opportunities within radial distance of 50 miles.
- Enhanced legacy codebase by engineering comments feature in ReactJS, increased user engagement by 25%.
- Limited access to protected content with Google OAuth 2.0 to increase new clientele base by 10%.

VOLUNTEER WORK

CPR & First Aid Instructor | CPR Hero | Siem Reap, Cambodia Dec 2017 - Jan 2018

Stand-up Comedy Nov 2018 - Present