

Sam Berston

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TECHNICAL SKILLS

Front End: JavaScript, React/Redux, HTML5, CSS3, jQuery, Babel, Webpack, Google Maps API, Auth0, Figma

Back End: Node.js, Express, RESTful API, Axios, MySQL, MongoDB, AWS (EC2, S3, CloudWatch), Google Cloud, NGINX, Twilio

Testing/Utilities: Jest/Enzyme, Mocha/Chai, CircleCI, Chrome dev tools, Lighthouse, k6/InfluxDB/Grafana, loader.io, Git, Postman, VScode, Vim, npm

SOFTWARE ENGINEERING APPLICATIONS

Front End Engineer | E-Commerce Website

github.com/samuelberston/project-catwalk

JavaScript | React | CSS | Node.js | Express | Jest/Enzyme/CircleCI | AWS

- Built a modern e-commerce product page using complex React architecture, bundled CSS, and a RESTful API backend, achieving high web performance, accessibility, and testing metrics
- Utilized Agile team methodologies including git workflow, continuous integration, test driven development, daily stand ups, and a ticketing system (Atlassian) to deliver on clients' business requirements in a timely fashion

Full Stack Engineer | Textify - automated SMS scheduling

github.com/samuelberston/MVP

Twilio | node-cron | JavaScript | React | CSS | Node.js | Express | MySQL | AWS

- Created a microservice using Twilio and node-cron to schedule and send SMS message tasks sent by the client and stored in a MySQL database
- Dynamically rendered server-side data in an interactive UI and controller panel with JavaScript, React, and CSS

Back End Engineer | Ratings & Reviews API

github.com/samuelberston/ReviewsAPI

AWS (EC2, S3, CloudWatch) | MySQL | NGINX | loader.io | k6/grafana | JavaScript | Express | Node.js

- Scaled microservice to handle 10000+ RPS by deploying two Node/Express servers with an NGINX load balancer
- Optimized SQL queries with indexing and organization to achieve data retrieval <0.5ms for 10M+ entries
- Decreased CPU utilization >100% by splitting the server and database into separate AWS EC2 instances

Full Stack Engineer | Local Voice

github.com/samuelberston/local-voice

Google Maps API | JavaScript | React | CSS | Node.js | Express | Jest/Enzyme/CircleCI | AWS | Agile

- Led the development of a location-based issue sharing application (similar to NextDoor), from requirement gathering to user story to architecture to deployment
- Utilized the Google Maps API to display data retrieved from a MySQL database, optimized to respond to user inputs and scaled to handle 6000+ RPS

EXPERIENCE

Executive Director | Sexual Health & Assault Peer Educators - Evanston, IL

2017–2020

- Led an organization of 30 students across 8 committees to deliver essential health services and education to the entire Northwestern student body

District Representative Intern | CA Senate District 11 Office - San Francisco, CA

2020

- Managed phone and email communications with constituents to assist with government issues during Covid-19

Consulting Intern | West Monroe Partners & Mission Measurement - Chicago, IL

2019

- Analyzed and modeled clients' data to deliver insights into investment outcomes and guide program improvement
- Managed logistics, expenses, and materials for 4-6 weekly consultant trainings of up to 100 participants

Finance Research Assistant | Kellogg School of Management - Evanston, IL

2019

- Worked with efficiency and detail to analyze and draw conclusions from large Excel datasets

EDUCATION

Hack Reactor | Advanced Software Engineering Immersive - San Francisco, CA

Northwestern University | B.S. Social Policy - Evanston, IL | GPA: 3.84

2016–2020

Relevant Coursework: Computer Programming with Python, Tools & Technologies of the World Wide Web, Statistics