

# Sam Berston

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## TECHNICAL SKILLS

**Front End:** ES6/HTML/CSS, React, jQuery, Babel, Webpack

**Back End:** Node.js, Express, MySQL, MongoDB, AWS (EC2, S3, CloudWatch, Route 53), pm2

**Testing/Utilities:** Jest/Enzyme, CircleCI, Chrome dev tools, loader.io

## PROJECTS

**Full Stack Engineer** | Local Voice

[github.com/samuelberston/local-voice](https://github.com/samuelberston/local-voice)

Agile | Google Maps API | React | Node.js | MySQL | Express | Jest/Enzyme/CircleCI

- Led the development of a location-based issue sharing application (similar to NextDoor), from requirement gathering to user story to architecture and deployment
- Utilized the Google Maps API to display data retrieved from a MySQL database, optimized to respond to user inputs (update location) and scaled to handle 6000+ RPS
- Practice CI by building a pipeline with unit/integration tests, code review, and deployment on AWS

**Back End Engineer** | Ratings & Reviews API

[github.com/samuelberston/ReviewsAPI](https://github.com/samuelberston/ReviewsAPI)

AWS (EC2, S3, CloudWatch) | Node.js | MySQL | NGINX | loader.io

- 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 >50% by splitting the server and database into separate AWS EC2 instances

**Front End Engineer** | E-Commerce Website

[github.com/samuelberston/project-catwalk](https://github.com/samuelberston/project-catwalk)

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
- Incorporated advanced React/CSS components such as a responsive image carousel/modal and a button with color gradient that responds to user's cursor
- Utilized Agile team methodologies including git workflow, continuous integration, test driven development, daily stand ups, and a ticketing system to deliver on clients' business requirements in a timely fashion

**Full Stack Engineer** | Textify - automated SMS scheduling

[github.com/samuelberston/MVP](https://github.com/samuelberston/MVP)

Twilio | React | CSS | Node.js | Express | MySQL | AWS

- Created a microservice using Twilio and cron to schedule and send SMS message tasks sent by the client and stored in a MySQL database
- Followed open source documentation to quickly learn and utilize new APIs
- Dynamically rendered server-side data in an interactive UI and controller panel with React and CSS

## INTERNSHIP EXPERIENCE (NON-TECHNICAL)

**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

**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

2021

**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