

Shawn M. Sullivan

www.shawnsullivan.dev

📍 Boulder, CO | 📞 563-590-7805 | ✉️ sullivanm3@gmail.com | 🔗 [linkedin.com/in/shawnsull3](https://www.linkedin.com/in/shawnsull3) | 🐙 github.com/shawnsull3

EDUCATION

- **Hack Reactor Software Engineering Immersive Program** | Galvanize May 2020
- **Bachelor of Science in Chemical Engineering** | University of Iowa December 2016
 - **Minor:** Chemistry | **GPA:** 3.19

PROFESSIONAL ENGINEERING EXPERIENCE

Full Stack Software Engineer (Pro Bono) | New Stack Ventures | Remote May 2020 - July 2020

Founder Toolkit: *A web application that provides founders with a list of venture firms for their next fundraise.*

- Developed and tested full-stack functionality to allow asynchronous data loading and transfer using React and Node.js.
- Designed an attractive and responsive UI to fit New Stack & The Full Ratchet's branding.
- Formulated an algorithm to filter, score, and return a personalized VC list for each user.
- Utilized Twilio's SendGrid API to email users a csv file containing their VC list.

Lab Engineer | Molecular Products | Louisville, CO May 2017 - December 2019

- Authored software implementation and equipment validations.
- Managed the calibration, reporting, and risk analysis of over 200 tools as the company's Calibration Administrator to comply with ISO 9001 and 13485 regulations.
- Utilized control measures such as I-MR control charts, first pass yields (FPY), turnaround times and overall equipment effectiveness (OEE) ensured all lab equipment was operating optimally.
- Arranged and directed a measurement system analysis (MSA) for the lab's Gas Test Systems to determine the systems' repeatability and reproducibility, and distinguish areas for improvement.

Chemical Engineering Intern | 360 Yield Center | Iowa City, IA March 2015 - February 2017

- Formulated algorithms ensuring pH and nitrate sensors operate correctly. Set criteria for technical/equipment errors.
- Developed and tested ion selective electrodes (ISE) for infield soil testing machines, allowing farmers to test soil nutrient levels in 5 minutes. Resulted in increasing equipment sales from 0 to over 1,000 in 1.5 years.

PROJECTS

trackIt - Full-Stack | React Native, React Native Navigation, Node, Express, MongoDB | [\[GitHub\]](#)

A daily habit tracker & analyzer

- Created clean, intuitive UI using FlexBox and React Native Navigation
- Utilized MongoDB & Mongoose to allow user to persist users' habit data
- Rendered habit data using React Native SVG Charts for better readability and analysis

Blue Lagoons - Back-End | Node, Express, PostgreSQL, K6, AWS | [\[GitHub\]](#)

Replaced the legacy backend system for the Tiger Eye Retail web-portal

- Optimized legacy code to build a performant backend that was able to handle 20+ million data points.
- Configured and deployed to multiple AWS EC2 instances to allocate resources for better performance.
- Reduced average response times to 120 ms under stress of 700+ RPS using indexing techniques & testing with K6.

Tiger Eye - Front-End | React, Bootstrap, CircleCI, SASS, Redux | [\[GitHub\]](#)

Retail web-portal for customers to browse, review and purchase products similar to Amazon

- Utilized Agile development, Trello, and CircleCI to streamline team workflow.
- Designed and implemented Product Overview components using React and Redux.
- Created a visually appealing and intuitive UI.

TECHNICAL SKILLS

Software Development - JavaScript (React.js & React Native), HTML/CSS, Node.js, GraphQL, PostgreSQL

Testing - Jest, Enzyme, Mocha, Chai, K6

Tools & Technologies - Git, Webpack, AWS (EC2, BeanStalk), CircleCI (CI/CD)