Shawn M. Sullivan

www.shawnsullivan.dev

⚲ Boulder, CO | ☎ 563-590-7805 | ✉ sullivansm3@gmail.com | 🖿 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 (Contract) | New Stack Ventures | Remote   **May 2020 - July 2020**

VC Rank: 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)