Shawn M. Sullivan

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TECHNICAL SKILLS

Front-End - JavaScript (ES5/ES6), React.js, React Native, CSS, HTML, Bootstrap, Redux, SASS
Back-End - Node.js, Express, PostgreSQL, MongoDB, GraphQL
Testing - Jest, Enzyme, Mocha, Chai, New Relic, K6
Tools - Git, npm, Webpack, Babel, Trello, AWS, CircleCI
Techniques - Agile Development, Pair Programming, Test Driven Development

SOFTWARE ENGINEERING EXPERIENCE

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
· Render habit data using React Native SVG Charts for better readability and analysis

Blue Lagoons - Back-End | Node, Express, PostgreSQL, K6, AWS | [GitHub]
Replace 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 and testing with k6/New Relic

Tiger Eye - Front-End | React, Webpack, Babel, Bootstrap, CircleCI, SASS, Redux | [GitHub] [Trello]
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 with conditional rendering using React and Redux.
· Created a visually appealing and intuitive UI.

CHEMICAL ENGINEERING EXPERIENCE

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.
· Utilizing 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.
· Wrote and trained technicians to new standard operating procedures (SOPs).
· Installed and implemented a fourier-transform infrared spectrometer (FTIR) to perform quality tests with greater accuracy and reproducibility.

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.
· Served as Project Lead for the research and development of a potassium ISE to measure water soluble potassium in soil samples and provides an estimate of the exchangeable potassium present.

EDUCATION

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