Jeffrey H. Shapiro

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SUMMARY

Full Stack Web Developer with a background in molecular biology seeking to leverage my science background to develop healthcare related products or services

PROJECTS

- **Tone Down for What** – an email tone analyzer for those who aren't sure how their emails sound before they are sent | toneanalyzer.herokuapp.com
  - Interacted with IBM Watson tone analyzer API to retrieve text tone data, save it into MongoDB with Mongoose, and render it to the front end using AngularJS. Enabled CRUD actions with Angular $http service
- **GYMtrition** – a whole solution exercise management app that allows a user to locate a gym, create a workout plan, and formulate a healthy meal | gymtrition.herokuapp.com
  - Conceptualized and constructed the workout plan module using HTML5, CSS3 and jQuery and a front-end API populated with exercise information from popular exercise websites

TECHNOLOGIES/LANGUAGES/FRAMEWORKS

- JavaScript, jQuery, Node.js, Express, HTML5/CSS3, Bootstrap, Git, Angular.js, Lodash, Trello, Responsive Design, API/JSON, RESTful API, MySQL, MongoDB, Ajax, State Management, Command Line
- Understanding of: Database Theory, API's, Agile Methodologies, Presentation Skills, Research Methods, Quality Assurance Testing, Social Coding Best Practices, Computer Science.
  Microsoft Office Suite, OS X, Microsoft Windows.

PROFESSIONAL EXPERIENCE

Laboratory Technician, Roche Molecular Systems | Jan 2015 – Present
- Conduct polymerase chain reaction (PCR) tests on biological materials produced by Roche for use in research labs
- Manage the day to day operations of the validation of a next generation quantitative PCR machine via interdepartmental collaboration, inventory management and creative problem solving
- Spearhead the technical development of an engineering report that aims to prove the viability of next generation PCR machine for use in release testing of Roche products
- Designed and implemented a reagent inventory management system to support a business lifecycle that mitigated testing issues caused by lack of inventory and expired inventory by >95 percent

Quality Control Technologist II, Accriva Diagnostics | Feb 2014 – Jan 2015
- Evaluated the performance of medical devices used to measure blood coagulation
- Conducted cross-functional investigations to determine the root cause of product failure, analyzed data using statistical software and summarized findings in a report
- Analyzed data for trending of products to track product performance over real time and for investigations
- Trained new employees on protocols for product testing and root cause analysis investigations

Graduate Research Assistant, Gregory Lab, University of Pennsylvania | Mar 2013 – Dec 2013
- Developed genetic elements that allowed for the study of the regulation of an RNA degrading enzyme in plants
- Developed solutions to troubleshoot protocols that brought the project to completion

Raw Materials Technician, Church & Dwight Co., Inc. | May 2011 – Jul 2012
- Evaluated quality of raw materials with analytical chemistry techniques used to make Church & Dwight products
- Obtained and performed test methods of chemical manufacturers for internal quality assurance

EDUCATION

Rutgers Coding Bootcamp | Web Development, April 2016
University of Pennsylvania | School of Engineering and Applied Science
Master of Biotechnology, December 2013
Rutgers University | School of Biological and Environmental Sciences
Bachelor of Science, Environmental Science, May 2011