

# 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 and services

## PROJECT

- **GYMtrition** – a single stop exercise management app that allows a user to locate a gym, create a workout plan, and formulate a healthy meal | [gymtrition.herokuapp.com](http://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
- **Tone Down for What** – a text tone analyzer for those who aren't sure how their emails sound before they are sent | [toneanalyzer.herokuapp.com](http://toneanalyzer.herokuapp.com)
  - Interacted with IBM tone analyzer API to retrieve text tone data, save it into MongoDB with Mongoose, and render it to the front page using AngularJS. Enabled all CRUD actions with AngularJS \$http service

## 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, System Administration, 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
- 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 90 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** | Graduation expected in 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