Jeffrey H. Shapiro

M: (908) 216-8919

jeffreyhshapiro@gmail.com | jeffreyhshapiro.herokuapp.com | linkedin.com/in/jeffreyhshapiro | github.com/jeffreyhshapiro

EDUCATION
Rutgers Coding Bootcamp | Full Stack 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 | B.S., Environmental Science, May 2011

PROJECTS (Previous and current)
- **Red Vase** – a brand dedicated to spreading inspiration and positivity with coloring books for people of all ages
  - Manage the development of the website by sourcing developers to design the front end and build the back end | myredvase.com
- **Nucleotext -** a text to nucleotide converter that takes user input and transforms it into a DNA sequence
  - Developed text transformation algorithms by converting text to binary or base four strings and then to nucleotide sequences in Angular | nucleotext.herokuapp.com
- **Tone Down for What** – a text tone analyzer for those who want to know how their emails sound before they are sent | toneanalyzer.herokuapp.com
  - Interacted with IBM Watson tone analyzer API to retrieve text data emotional analysis, 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

PROFESSIONAL EXPERIENCE
Web Development Intern, iDialogs LLC | September 2016 - Present
- Implement code base improvements to the web application built in native JavaScript, PHP backend, and MySQL database
- Improve functionality of administrative modules to allow for easier maintenance of client facing documentation
- Perform quality assurance and bug reporting for the web, Android, and iOS applications

Full Stack Web Developer (contract), Adaptive Learning Systems | July 2016 - September 2016
- Patched software bugs with AngularJS for a learning management technology platform
- Built and managed data schemas and API routes for databases in MongoDB and PostgreSQL
- Recognized and implemented improvements and optimizations to unstable code

Laboratory Technician, Roche Molecular Systems | Jan 2015 – July 2016
- Conducted polymerase chain reaction (PCR) tests on biological materials produced by Roche for use in research labs
- Managed 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
- Built plasmids that allowed for the study of the regulation of an RNA degrading enzyme in *A. thaliana*
- Developed solutions to troubleshoot molecular cloning protocols that ultimately brought the project to completion

TECHNOLOGIES/LANGUAGES/FRAMEWORKS
- JavaScript, jQuery, AngularJS, PHP, Node.js, Express, HTML5, CSS3, Bootstrap, Git, Lodash, Trello, Responsive Design, API/JSON, RESTful API, MySQL, MongoDB, PostgreSQL, Ajax, Command Line, Unit Testing, Microsoft Office Suite, OS X, Microsoft Windows