Jefferson Xu

Hillsdale, NJ ● me@jeffersonxu.com ● http://jeffersonxu.com/ ● https://github.com/jeffersonxu

EDUCATION

Rutgers University - New Brunswick | Bachelor of Arts in Computer Science   Expected May. 2023
- *Member,* Undergraduate Student Alliance of Computer Scientists (USACS); *Member*, Rutgers Lingua

Bergen County Academies | Academy for Technology & Computer Science   Class of 2019
- GPA: 3.8/4.0
- *Class Vice President,* Student Council; *Director of Sponsorship*, hackBCA; *Head Math Teacher,* Huaxia Bergen Chinese School; *Varsity Competitor,* Bergen County Debate League
- Relevant Courses: AP Computer Science, AP BC Calculus, AP Statistics, Linear Algebra & Differential Equations, C and Data Structures, Advanced Topics in Computer Science
- Awards: National Honor Society, Honor Roll, AP Scholar with Distinction, 1st in 2018 Debate Season

EXPERIENCE

Web Development Intern   Jun. 2018 - May. 2019
BlackLapel | New York, NY
- Implemented a universal content management system and an XML sitemap generator to improve company's SEO
- Streamlined unit and integration tests using Selenium WebDriver and Node.js to allow for test automation
- Refactored API endpoints in PHP and wrote Neo4j queries to be compatible with REST API, maintaining legacy code
- Reconfigured the main page to be ADA compliant using Ember.js and developed microservices using Docker containers
- Improved readability of dashboard through UI upgrades and new tools for the team to view sales more effectively

PROJECTS

Biological Network Visualization   Sep. 2018 - Jun. 2019
Icahn School of Medicine at Mount Sinai | New York, NY
- Developed tools for my capstone groups' mentors Dr. Selim Kalayci and Dr. Zeynep Gümüş to better analyze biomolecular data
- Utilized the Three.js library to add more 3D features like arrowheads, shapes, and the ability to toggle visibility attribute
- Changed network structure to graph to improve efficiency and runtime when searching for unique node
- Incorporated submodules to allow multiple node hierarchies be parsed, adding more depth to the data
- Gained knowledge in the field of computational biology and how to work with specialized researchers

SeniorMania - https://seniormania.fun/   Oct. 2018 - Dec. 2018
Bergen County Academies | Hackensack, NJ
- Senior Mania is a list of challenges for each senior class where groups compete with one another to see who can complete the most challenges
- Created a web application to efficiently keep score of each team's points and various challenges they have completed throughout the year
- Gained experience with responsive-design as well as using Firebase as a backend to host user and admin data
- Had 16 teams registered with over 150 students participating, highest number of students in school history

SKILLS

Languages: Java | Python | Javascript | HTML | CSS

Technologies: Git | Firebase | mySQL | Node.JS | jQuery