

# Jefferson Xu

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## EDUCATION

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**Rutgers University - New Brunswick** | Bachelor of Arts in Computer Science Expected May. 2023  
**Bergen County Academics** | Academy for Technology & Computer Science Class of 2019

- GPA: 3.8/4.0
- *Class Vice President*, Student Council; *Head Math Teacher*, Huaxia Bergen Chinese School; *Director of Sponsorship*, hackBCA; *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

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**Web Development Intern** Jun. 2018 - May. 2019  
BlackLapel | New York, NY

- Developed unit and integration tests using Selenium WebDriver, maintaining legacy code
- Implemented a universal content management system and an XML sitemap generator
- Wrote Neo4j queries and updated API endpoints to be compatible with REST API
- Made the main page ADA compliant using Ember.js and CSS/SASS
- Improved readability of dashboard through UI upgrades and new tools for the team to view sales

## PROJECTS

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**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 when searching for unique node
- Implemented submodules to allow multiple node hierarchies be parsed
- Gained knowledge in the field of computational biology and how to work with specialized researchers

**SeniorMania** - <https://seniormaniaman.fun/> Oct. 2019 - Dec. 2019  
Bergen County Academics | Hackensack, NJ

- Senior Mania is a list of challenges to 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 and 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

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Languages: Java | Python | Javascript | HTML | CSS

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