

# Olivia Wan

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**Available May 2019**

## Education

### **Northeastern University** · 3.89/4.00

September 2015 - May 2019 (expected) · Boston, MA

Candidate for Bachelor of Science in Computer Science and Biology

- **Courses:** Object-Oriented Design, Algorithms and Data Structures, Database Design, Theory of Computation, Biostatistics, Organic Chemistry, Biochemistry, Genetics and Molecular Biology
- **Honors:** Dean's Scholarship, Dean's List
- **Activities:** Girls Who Code Facilitator, CCIS Course Assistant, iGEM, NUStage Musical Theater Company Pit Band

## Skills

### **Languages**

Java, Python, R, JavaScript, HTML/CSS, Sass

### **Frameworks**

Spring, Flask, AngularJS, Jasmine

### **Databases**

Oracle SQL, MySQL, MongoDB

### **Tools**

Heroku, Tomcat, Maven, Git, SVN

## Experience

### **Data Science Co-op**

Novartis Institutes for BioMedical Research

January 2018 - July 2018 · Cambridge, MA

- Implemented training model for machine learning tool to predict chemical bond formation using Python and scikit-learn, and run on high-performance computing Linux cluster
- Developed Python text-mining model to identify patterns between protein metadata retrieved from Protein Data Bank API and text files representing hydrogen bond data
- Migrated web server for cheminformatics models to Python and Flask implementation in use by 500+ chemists; added support to handle streaming XML inputs containing 1M+ chemical compounds

### **Software Engineering Co-op**

naviHealth

January 2017 - August 2017 · Newton, MA

- Built RESTful API endpoints and hooked up front end UI components of web applications for post-acute patient care workflows using Java, Spring MVC, Oracle SQL, and AngularJS
- Researched and developed proofs of concept for implementation of new features and technologies, including Kafka Streams, JasperReports, and Apache HTTP Server
- Integrated MongoDB functionalities into existing application architecture for use in new features
- Refactored common services for global session management, user security, and application licensing

### **Front End/UX Intern**

Parameters

February 2016 - August 2016 · Boston, MA

- Built mobile-responsive company website on Tumblr platform using HTML/CSS and Bootstrap
- Implemented front end web application components using AngularJS, Firebase, and HTML/CSS
- Designed user flows, wireframes, and application screen mockups in Photoshop

## Projects

### **Latest Additions**

Spring Boot/AngularJS single-page web app to generate a playlist of latest added tracks to a set of Spotify playlists

### **Girls Who Code Site**

GitHub Pages site detailing mission and meeting information for Girls Who Code club at Northeastern University