

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, NUSage Musical Theater Company Pit Band

Skills

Languages

Java, Python, R, JavaScript, jQuery, 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 RDKit, and run on in-house HPC Linux cluster
- Developed Python text-mining model to identify patterns between protein metadata retrieved from Protein Data Bank web 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 Development Intern

Parameters

February 2016 - August 2016 · Boston, MA

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

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