Olivia Wan

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Available May 2019

Education

Northeastern University · 3.89/4.00
College of Computer and Information Science
Candidate for Bachelor of Science in Computer Science and Biology
September 2015 - May 2019 (expected) · Boston, MA

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

Skills

Languages
Java, Python, R, JavaScript, jQuery, HTML/CSS

Frameworks
Spring (MVC, Boot), Flask, AngularJS, Sass, Jasmine

Databases
Oracle SQL, MySQL, MongoDB

Tools
Heroku, Tomcat, Maven, GitHub

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 text files representing hydrogen bond data and protein metadata retrieved from Protein Data Bank web API
- Migrated web server for cheminformatics models used by 500+ chemists to Python and Flask; added support to handle streaming XML inputs containing 1M+ compounds

Software Engineer Co-op
naviHealth
January 2017 - August 2017 · Newton, MA

- Built back-end API endpoints and hooked up front-end components of web applications for post-acute patient care workflows using Spring MVC, Oracle SQL, AngularJS, and Tomcat
- Researched and developed proofs of concept for integrations of new features and technologies, including Kafka Streams, JasperReports, and Apache HTTP Server
- 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 HTML/CSS, AngularJS, and Firebase
- Created preliminary user flows, wireframes, and application screen mockups

Projects

Latest Additions
Spring Boot/AngularJS web app to generate a playlist of the latest added tracks to set of Spotify playlists

Girls Who Code Site
GitHub Pages site detailing mission and club information regarding Girls Who Code club at Northeastern

References Available Upon Request