Olivia Xiang

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EDUCATION

CORNELL UNIVERSITY

BS in Computer Science
Expected May 2020 | Ithaca, NY
College of Engineering
Hunter R. Rawlings III Presidential Research Scholar
Dean's List
GPA: 3.4

SEMINOLE HIGH SCHOOL

May 2016 | Sanford, FL
International Baccalaureate Program
Summa Cum Laude
GPA: 4.74/4.0

LINKS

Github:// **oliviafx**
LinkedIn:// **olivia-xiang-724bb7135**

COURSEWORK

UNDERGRADUATE

OO Design & Data Structures Honors
(Teaching Assistant)
Discrete Structures
Digital Logic & Computer Organization
Multivariable Calculus
Linear Algebra
Cornell Data Science Training Program
Microeconomics

SKILLS

PROGRAMMING

Fluent in:
Java

Used Regularly:
R • Git • LaTeX • Unit Testing
• HTML • CSS • Javascript

Past Experience:
Python • Unix • NodeJS • ReactJS
JIRA • Verilog HDL

PROJECTS

RECOMMENDATIONS

March 2017

- Created a Node server and hosted the corresponding website site on cloud platform Heroku which allows the user to search for recommendations based off input location and price level using the Yelp Fusion API. Used HTML, CSS, Javascript, and EJS for the front end.

PAWPULATION | Animal Health Hackathon

January 2017

- Created a web application using Java with a server and client that would allow vets to access a database of epidemiological data. Used Postgres to implement the database.

SIMULATING EVOLVING ARTIFICIAL LIFE | Group Project

September - December 2016

- Created a parser and interpreter for the critter language using Java.
- Created a GUI and a console that allowed for user interaction using JavaFX.
- Created a thread-safe web server using Java that processed HTTP requests using JSON.

TEXT EDITOR

September 2016

- Implemented a Hash table, a Trie, and a Bloom Filter from scratch using Java. Used these data structures to implement a text editor that had word completion, spell check, and text search functionality.

ENCRYPTION

September 2016

- Implemented the Caesar and Vigenere ciphers as well as the RSA algorithm, using the Factory Design Pattern and Java.
- Used input and output streams to encrypt and decrypt large files.

EXPERIENCE

RESEARCH | Cornell University

January 2017 - Present | Ithaca, NY

- Used R to study whether taking a course that is listed as a co-requisite as a prerequisite would be better affect your performance on the following course.

UCF ORC | Quality Assurance Analyst Intern

August 2016-December 2016 | Orlando, FL

- Worked on the FANIQ project, aimed at connected entrepreneurs with investors.
- Verified the application based on different user acceptance criteria using Agile Software Development Methodology.

YOUNG SCHOLARS PROGRAM | Florida State University

June 7, 2015 - July 18, 2015 | Tallahassee, FL

- Validated a genomic algorithm, MIGRATE, using simulation with Python and Unix to see whether gene sequencing analysis is affected by the use of raw (haplotype) data versus combined allele sequences.
- Performed research in the Department of Scientific Computing under the mentorship of Dr. Peter Beerli.