

# Xinyan (Cindy) Zhang

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## EDUCATION

**Northeastern University**, Seattle, WA

Expected Graduation: May 2022

Khoury College of Computer Sciences

*Candidate for a Master of Science in Computer Science*, GPA 4.0

Related Courses: Web Development, Foundations of Computer Science, Discrete Math and Data Structure,  
Object-Oriented Design, Computer Systems, Database Management System, Algorithms

**Columbia University**, New York, NY

Fu Foundation School of Engineering and Applied Science

May 2018

*Bachelor of Science in Chemical Engineering*

**Bard College at Simon's Rock**, Great Barrington, MA

May 2018

*Bachelor of Arts in Engineering*

## PROJECT

### MetaChrom Genomic Variant Effect Annotation Server

University of Chicago, Chicago, IL

Aug 2020

- Developed backend infrastructure of the server with Flask
- Launched web application using Flask and designed an easy-to-use front-end design
- Deployed the website to production server using Nginx and Gunicorn, it can be accessed here:  
<https://metachrom.ttic.edu>.

### Startup Analysis Web Application

Northeastern University, Seattle, WA

Jun 2020

- Designed relational model for a startup analysis system using data on Kaggle
- Built startup analysis web application using JSP with SQL
- Created a user-friendly front-end design

### Reversi Board Game

Northeastern University, Seattle, WA

Dec 2019

- Implemented Reversi board game using Python and Processing
- Designed simple AI to compete with users

### Sentiment Analysis and Emotion Recognition

Columbia University, New York, NY

May 2017

- Constructed a sentiment analysis and emotion recognition model
- Developed supervised machine learning model to achieve 88% recognition accuracy
- Created well-defined GUI using Flask that allowed uploading files for emotion recognition by users

## TECHNICAL KNOWLEDGE

**Programming Languages:** Java, Python, C, MySQL, JavaScript

**Operating Systems:** Linux, Macintosh OS, Windows 7/10

**Frameworks and Tools:** SQL server, JSP, Flask, React, HTML/CSS, Git

## WORK EXPERIENCE

### Research Assistant

David Geffen School of Medicine at UCLA, Los Angeles, CA

Sep 2018 – Jul 2019

- Performed research in developing immunotherapies for urologic cancers
- Coordinated newly-developed clinical trial and produced a protocol that is feasible and efficient in the two-year trial period
- Mentored interns in theoretical and practical trainings that ensured the interns acquired sufficient technical skills and knowledge for the future tasks