

# Xinyan (Cindy) Zhang

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Available: Jan 2021 – May 2021

## EDUCATION

**Northeastern University**, Seattle, WA

Expected Graduation: Dec 2021

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 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*

## TECHNICAL KNOWLEDGE

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

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

**Software:** Word, Excel

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

## PROJECT

### MetaChrom Genomic Variant Effect Annotation Server

*Toyota Technological Institute at Chicago*, Chicago, IL

Aug 2020

- Developed a backend infrastructure of the server with Flask
- Launched a web application using Flask and designed an easy-to-use front-end design
- Deployed the website to a production server using Nginx and Gunicorn

### Startup Analysis Web Application

*Northeastern University*, Seattle, WA

Jun 2020

- Design a relational model for a startup analysis system using data on Kaggle that fits the insight of the project
- Developed a startup analysis web application using JSP with database connectivity to the SQL server and having a user-friendly front-end design

### Othello Game

*Northeastern University*, Seattle, WA

Dec 2019

- Implemented an Othello game using Python and Processing that has a simple AI to compete with user

### Sentiment Analysis and Emotion Recognition

*Columbia University*, New York, NY

May 2017

- Developed a sentiment analysis and emotion recognition model with machine learning using Python that has 88% recognition accuracy
- Created a website and a well-defined GUI for the model using Flask that allows uploading files for emotion recognition by the user

## 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 a 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