

Xinyan (Cindy) Zhang

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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: Advanced Cloud Development, Web Development, Discrete Math and Data Structure,
Object-Oriented Design, Computer Systems, Database Management System, Algorithms

Columbia University, New York, NY May 2018
Fu Foundation School of Engineering and Applied Science
Bachelor of Science in Chemical Engineering

TECHNICAL KNOWLEDGE

Programming Languages: Java, Python, MySQL, JavaScript, C
Operating Systems: Linux, Macintosh OS, Windows 7/10
Frameworks and Tools: SQL server, MongoDB, JSP, Flask, ReactJS, Vue, Redux, Node.js, HTML/CSS, Git, Agile, Spark, RESTful API, Nginx, Gradle

PROJECT

Food Delivery Application Dec 2020
Northeastern University, Seattle, WA

- Developed food delivery application using MVC design pattern
- Utilized MongoDB for scalable application database
- Designed RESTful APIs and implemented Spark Java framework as the web application server
- Adopted Scrum as the Agile workflow for efficient project management

Recipe Organizing Web Application Dec 2020
Northeastern University, Seattle, WA

- Created full-stack application that allows users to search and organize recipes
- Used Node.js as backend environment and worked with 3rd party API in searching
- Designed application frontend using Vue and Vuex as the state management tool

Conway's Game of Life Oct 2020
Northeastern University, Seattle, WA

- Implemented Conway's Game of Life using Node.js and React
- Used React Hooks for state management
- Configured application settings and deployed it on Heroku

MetaChrom Genomic Variant Effect Annotation Server Aug 2020
University of Chicago, Chicago, IL

- 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 Unicorn

Startup Analysis Web Application Jun 2020
Northeastern University, Seattle, WA

- 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

Sentiment Analysis and Emotion Recognition May 2017
Columbia University, New York, NY

- 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

WORK EXPERIENCE

Research Assistant Sep 2018 – Jul 2019
David Geffen School of Medicine at UCLA, Los Angeles, CA

- Performed research in developing immunotherapies for urologic cancers
- Coordinated newly-developed clinical trial and produced a feasible and efficient protocol in the two-year trial period
- Processed large amount of data for an ongoing clinical trial