

# Yang Chen

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## EDUCATION

### UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL (UNC)

COMPUTER SCIENCE AND STATISTICS B.S. (GPA: 3.91/4.00)

AUG 2018 - MAY 2022

COURSEWORK: DATA STRUCTURES, COMPUTER ORGANIZATION, DATABASES, MACHINE LEARNING, MODELING AND ANALYSIS  
DATA

## EXPERIENCE

### DISBURSED

#### Lead Developer

Sep 2020 - Present

- Developing a full-stack mobile application in **Flutter** to manage shared expenses using an efficient, in-house algorithm to minimize necessary transactions
- Implemented support for **iOS**, **Android**, and Web platforms, using the Flutter SDK and a **Firebase** backend; utilized Firestore, Messaging, and Functions to design a scalable and easy to maintain database

### LIBERTY MUTUAL INSURANCE

#### Software Development Intern

May 2020 - Aug 2020

- Developed and deployed full stack application of internal content management API for secure company document management across all business departments using **React**, **Node.js**, and **Bamboo CI**
- Researched user experience and code performance improvements to provide developer team with additional options in scaling production
- Parsed internal document data extracted from **Amazon Dynamo DB** using **GraphQL** to develop new endpoints within Liberty's API

### UNC UNDERGRADUATE OFFICE OF RESEARCH

#### Research Assistant

Jan 2020 - May 2020

- Worked with UNC's Department of Education to research approaches for introducing data science curriculum to UNC
- Utilized **Python** to analyze recent student enrollment trends related to interdisciplinary coursework
- Developed exploratory data science tools and curriculum using **Python** with **Flask** to assist beginning students studying data science

### UNC DEPARTMENT OF COMPUTER SCIENCE

#### Teaching Assistant

Aug 2019 - Present

- Led development of introductory computer science curriculum for over 500 students using **Python**, **Typescript**, and **Git**
- Assist over 500 undergraduate students in learning introductory programming concepts such as basic data structures to facilitate early skill development in computer science

### UNC GRAPHICS AND VIRTUAL REALITY GROUP

#### Research Assistant

Jun 2019 - Oct 2019

- Led code development of augmented reality personality for interactive user assistance using **Unity**, user voice recognition and real-time image recognition with **OpenCV**
- Conducted **optical character recognition** and implemented **visual question answering** for text retrieval and analysis in natural scene environments using **OpenCV** and **C#**
- Performed comparison analysis on calibration methods for virtual model to real-world alignment with **OpenCV**

## PROJECTS

- WeThePriority: Aggregated News Scraper and Interactive Timeline on Law Enforcement Activity Using **ExpressJS** and **Redis** [Link]
- TherapyLink: Application built in **React Native** for African-American Women Coping with Mental Health Issues [Founder]

## SKILLS

- **Programming Languages:** Python, Java, SQL, HTML, CSS, JavaScript, C, OpenCV, R
- **Other Technologies:** TensorFlow, AWS, React, Git, Linux, Bamboo, Redis, GraphQL, AWS Lambda, DynamoDB, S3, Elasticsearch

## ACTIVITIES AND LEADERSHIP

- Coordinated maintenance and development of non-profit software projects as **CS+Social Good Past Projects Tech Lead** Jan 2020 - May 2020
- Mentor over 200 students and Chapel Hill community members in Olympic boxing technique, conditioning, and sparring as a **Carolina Boxing Team Member** Jan 2019 - Present