# Cora Wu

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## Education

**Cornell University**                                                                                                    2018-2022
- GPA: 3.886
- Coursework: Object-Oriented Programming & Data Structures, Data-Driven Web Applications, Design & Programming for the Web, Human-Computer Interaction Design, iOS App Development, Foundations of Artificial Intelligence, Language & Information, Text Mining, Functional Programming, Discrete Structures, Linear Algebra

## Experience

**Incoming Software Engineering Intern** @ Tesla - Software Quality Assurance Team                Fall 2021
- Selected as an incoming Software Engineering Intern on Tesla's Software Quality Assurance team for the fall semester

**Data Engineering Intern** @ Amazon - GSF Launch and Expansion Team                            Summer 2021
- Constructed a data pipeline to process data on request tickets for Amazon's Global Specialty Fulfillment teams, then generated a dashboard presenting those ticket insights
- Coded an AWS Lambda application in Python to collect and clean ticket data from an internal API and store the data in S3 buckets
- Worked simultaneously on a second exploratory data analysis project to improve warehouse development timelines

**Software Development Intern** @ Capital One - SITE Team                                           Summer 2020
- Explored methods to improve query results from the search bar on the Capital One homepage
- Researched and compared open source web crawlers and search softwares, optimized a full crawl of the Capital One website, and deployed the crawler-search software integration in AWS

## Extracurriculars

**Intelligent Systems Team Mentor** @ Cornell Data Science                                          2018-Present
- Conducted research with a teammate under Stanford professor David Scheinker to find and predict trends in county health data using machine learning techniques (e.g. linear regression, random forests) in Python
- Selected as a team lead and served for 2 semesters by organizing project standups for 20+ team members, coordinating bi-weekly research paper reading groups, and presiding over new member recruitment and onboarding

**Hackathon Organizer** @ BigRed//Hacks                                                             2018-Present
- Raising sponsorships for Cornell University's largest and entirely student-run hackathon, BigRed//Hacks
- Individually reached out to over 50 company representatives and raised over $10,500

**Teaching Assistant** @ Cornell Department of Computer Science                                     2019-2021
- Served as a TA for CS 1110: Introduction to Computing with Python, then CS 3300: Data-Driven Web Applications
- Held office hours, offered mentorship via one-on-one tutoring sessions, and graded exams & assignments

**Head of Web Development** @ Fairmandering (link)                                                  Fall 2020
- Led the development of nonpartisan organization Fairmandering's website using HTML, CSS, and JavaScript

**Outreach Volunteer** @ Women in Computing at Cornell                                              2018-2019
- Volunteered as a mentor for workshops teaching basic coding concepts to students from local elementary, middle, and high schools

## Projects

**Software Developer & Web Developer** @ ClubHub (link)                                             Spring 2021
- Developed a web app with a custom information retrieval system to recommend movies based on the user's clubs at Cornell
- Utilized cosine similarity to rank the similarities of vectors representing movie summaries and club mission statements
- Constructed frontend components (such as movie suggestion cards) in React and created a k nearest neighbors model to find similar clubs to those listed in the query in order to provide additional movie suggestions

**Backend Development Lead** @ Ithaqueue                                                            Summer 2020
- Led a backend team for a web app designed to make virtual office hours at Cornell manageable by tracking waitlists for classes
- Developed the backend in Flask, designed the database & generated it with SQLAlchemy, and implemented queries with GraphQL

**iOS Developer** @ Cornell AppDev Hack Challenge                                                   Winter 2018
- Developed an iOS app with a team of 4 members to connect student freelancers with students requesting their services

## Skills

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| **Languages** | Python, JavaScript, Java, HTML/CSS, SQL, PHP, OCaml, Swift |
| **Frameworks/Tech** | Git/GitHub, Pandas, Scikit-learn, Anaconda, NumPy, AWS (Lambda, EC2, S3... etc), Flask, React, SQLAlchemy |