

# Caroline Zeng

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Availability: June 2022

## EDUCATION

**Cornell University, College of Engineering;** Ithaca, NY 2020 Present

Candidate for Bachelor of Computer Science; GPA: 4.00/4.00 Expected May 2022

Relevant Coursework: Systems Programming, Operating Systems, Programming Languages, Data Structures & Functional Programming, Foundations of AI, Intro to Machine Learning

Organizations: Tau Beta Pi

**Northeastern University, Khoury College of Computer Sciences;** Boston, MA 2018 2020

Candidate for Bachelor of Computer Science and Mathematics; GPA: 3.912/4.00

Relevant Coursework: Algorithms, Object-Oriented Design, Fundamentals of Computer Science I & II, Discrete Structures, Linear Algebra, Multivariable Calculus, Number Theory, Group Theory

Honors: Dean's List

Activities: Co-captain of NU Ballroom Dance Club

## EXPERIENCE

**Software Engineering Intern, Intuit;** Mountain View, CA May 2021 August 2021

- Wrote integration tests for internal developer tools for AWS account and policy management
- Added tests to release pipeline, revealing design flaws and preventing bugs from reaching production

**Course Assistant, Cornell University;** Ithaca, NY January 2021 Present

- Courses: Systems Programming, Data Structures & Functional Programming
- Host 2+ office hours per week to assist students with homework assignments and course content
- Provide faculty support in grading students' assignments and exams

**Software Engineering Co-op, Pratt & Whitney;** East Hartford, CT January 2020 July 2020

- Create tools to support full-flight data migration to Hadoop database
- Perform data analytics to facilitate further analysis and failure identification

**Software Technician, ResNet Resource Center;** Boston, MA July 2018 December 2019

- Diagnose and troubleshoot technical issues with computers
- Lead a team of student technicians to verify Ethernet and coaxial port functionality in student housing
- Develop applications in a team to streamline annual port checks and daily location audit

## COMPUTER KNOWLEDGE

Languages: Java, Python, SQL, OCaml, C, Racket, Bash

Frameworks: Karate

## PROJECTS

**Port Check 3** March 2019 August 2019

Database Backend Development

- Created an updated back end of ResNet's PortCheck Android app using Python
- Used Djangodb and GraphQL libraries in Python to store port check data

**Chat Client Encryption and Networking** September 2017 June 2018

- Continuous independent project through high school in Java on concurrency, networking, and encryption
- Built encrypted chat room program using Java Sockets, threads, and a Diffie-Hellman key exchange
- Extending on encryption, researched and implemented rolling hash function and symmetric block cipher

## INTERESTS

Ballroom Dancing, Tennis, Violin, Knitting