

Eddie Xu

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EDUCATION

Case Western Reserve University

Expected: May 2022

Bachelor of Science in Engineering, Computer Science, **GPA: 3.86**

Cleveland, OH

- Relevant Coursework: Data Structures, Algorithms, Operating Systems, Artificial Intelligence, Software Engineering, Databases, Computer Architecture, Game Design, Computer Security, Linear Algebra, Discrete Math, Statistics

EXPERIENCE

Amazon

May - July 2021

Software Engineer Intern, Alexa

Seattle, WA

- Fully designed, implemented, and end-to-end tested a new feature on Alexa Guard that informs customers about home intruders, using SQS, SNS, DynamoDB, and Key Management Service. The feature deployed to production.
- Improved efficiency of the feature by 30% by building a handler that filters out the traffic received to the service.

Google Developer Student Club (DSC)

August 2020 - May 2021

President + Global Top 50, USA Top 3

Remote

- Placed top 50 in the world out of 800+ teams in the [2021 Solution Challenge](#) sponsored by Google Developers.
- Led a 165-member [club](#), hosting technical workshops and building non-profit projects to support local businesses.

Erie Insurance Group

June - August 2020

Software Engineer Intern, Enterprise Content Management

Erie, PA

- Designed a data cleaner that deletes special characters in ~1.4 million claims documents per year, with ~95% accuracy (*via performance tests*), leveraging IBM content collector to process untranslated .txt/.pdf metadata files.
- Improved code coverage of metadata processor files by ~7%, using JUnit framework to write new test suites.

Case Western Reserve University

January 2020 - Present

Teaching Assistant: EECS 233 (Data Structures), EECS 340 (Algorithms)

Cleveland, OH

- Conducted weekly office hours for a class of 150 students to clarify concepts in data structures and algorithms.
- Collaborated with the professor to generate problem sets and grade homework, quizzes, and exams.

ThinkTown Education

June - August 2019

Software Engineer Intern, WeChat App Development

Zhejiang, China

- Built a homework section for a WeChat mini-program accessed by ~3500 students (*WeChat API, WXML, WXSS*).
- Enhanced the organization and efficiency of the program by ~30% by "locking" problem sets whose prerequisites were not yet met, preventing students from skipping around and potentially sharing solutions.

PROJECTS

[FoodRescue](#)

February - April 2021

- Worked with 4 peers to build an Android app in Flutter using Firebase and Google Maps API to connect local food suppliers with non-profit organizations to establish a donation system between them.
- Won \$2800 in prize money from CWRU pitch competitions.

[5 Bots in 5 Days](#)

May 2020

- Automated 5 bots in 5 days, employing *Selenium* and *Chromedriver*, to spread positivity during COVID-19.
- Used *pytesseract* to "bypass" bot-prevention logins by parsing the authentication codes sent to iMessage.
- Notable projects include a Tinder bot that sends wholesome messages to all matches, a LinkedIn bot that sends recruiters friendly, personalized notes, and an Instagram bot that likes/comments on posts.

SKILLS

- **Programming/Web Development:** Java, Python, C, C++, C#, HTML, CSS, JavaScript (React), Flutter (Dart), Racket
- **Misc:** MongoDB, Express, NodeJS, Git, JUnit/Unit testing, iOS, Android, Unity, AWS, Bootstrap, Latex