

# 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, Adv. Game Design, Computer Security, Linear Algebra, Discrete Math, Statistics

## EXPERIENCE

### Amazon

**May - August 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 potential home intruders, using AWS services (SQS, SNS, DDB and KMS). The feature was deployed to production.
- Reduced the anticipated amount of traffic received by the service by ~40% after setting up filters using SNS/SQS.

### Google Developer Student Club (DSC)

**August 2020 - May 2021**

Club President; Placed Top 50 in Global Competition, Top 3 in USA

Remote

- Placed top 50 out of 800+ teams worldwide 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**

- Collaborated with 6 other students to build an Android app in Flutter, using *Firebase* and the *Google Maps API*, aimed to reduce food waste by providing a platform where food suppliers can donate excess food to non-profits.
- Won \$2800 in prize money from various university-wide 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