

# Eddie Xu

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## EDUCATION

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### Case Western Reserve University

**Expected 2021**

Bachelor of Science in Engineering, Computer Science, GPA: 3.84

Cleveland, OH

- Relevant Coursework: Data Structures, Algorithms, Operating Systems, Artificial Intelligence, Discrete Math, Databases, Logic Design and Computer Organization, Software Engineering, Linear Algebra, Statistics for Signals

## EXPERIENCE

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### Case Western Reserve University

**January 2020 - Present**

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

Cleveland, OH

- Conduct weekly office hours for students in a ~150 person class to help them better understand fundamental concepts in data structures and algorithms. Help with homework/projects and provide exam feedback.
- Work closely with the professor to generate problem sets and grade homework, quizzes, and exams
- Nominated to lead supplemental instruction sessions to help prepare students for midterms.

### Erie Insurance Group

**June - August 2020**

Software Engineer Intern, Enterprise Content Management

Erie, PA

- Designed a data cleaner that deletes special characters in ~40 batch files and cleans up redundant text, with 95% accuracy (via performance tests), using 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.
- Wrote documentation on JUnit/Unit testing to be shared with future SWE interns to help with onboarding.

### ThinkTown Education

**June - August 2019**

Software Engineer Intern, WeChat App Development

Zhejiang, China

- Created a homework section for a WeChat mini-program used 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 with each other.

## PROJECTS

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### Screen Distancing Detector

**June - July 2020**

- A monitoring device that warns users if they are too close to their screens, with ~25 warnings/day, using OpenCV.
- Used *CascadeClassifier* and *pyscreenshot* to allow compatibility with new users, who initially enter their eyesight and are provided with the recommended distance from their screen.

### 5 Bots in 5 Days

**May 2020**

- Automated 5 bots in 5 days using *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.

### Jeweled

**April - May 2019**

- Created a game similar to Candy Crush using *Javafx*, where players may enter a desired board size and theme.
- Each cleared gem is marked and randomly replaced, and the number of moves to mark every gem is recorded.

## LEADERSHIP

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- **Resident Assistant:** Live in a co-ed dorm with ~175 Freshmen, serving as a mentor and advisor
- **Club Tennis** (VP of Logistics) Lead practices, built and maintain [cwruclubtennis.com](http://cwruclubtennis.com), and send out practice details.

## SKILLS

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- **Programming/Web Development:** Java, Python, C, C++, HTML, CSS
- **Misc:** Git, Junit, API Development, Unity, Bootstrap, OpenCV, Selenium, LaTeX