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