

Yu-Ann Chen

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You can call me **Ashley**. (*She/Her/Hers*)

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Education

New York University (Major: Computer Science)

New York, NY

Coursework: Algorithms, Data Structures, Computer System Organization, Parallel Computing

Graduating May 2019

Experience

Justworks

Software Engineering Intern

New York, NY

May 2018 – Present

- Developed system for adding support for electronic signatures in Justworks' Ruby on Rails document platform.
- Integrated with third-party API to validate users' PDF files and produce certified versions for storage in AWS S3 bucket.
- Created data input validation for calculating customer insurance eligibility, replacing a previously manual process.
- New pipeline consisted of backend data validation and custom frontend React components for instant user feedback.
- Iterated several rounds of feedback with designers and end users and oversaw the eventual deployment to production.

Poncho Inc.

Product Intern

New York, NY

Sep – Dec 2017

- A/B tested builds of releases and new features for iOS app and Node.js chatbots, as well as documenting software bugs.
- Researched and presented recommendations for various products on UX, front-end design, and user onboarding flow.

Carnegie Mellon University • Institute of Software Research

Undergraduate Researcher

Pittsburgh, PA

Jun 2016 – Sep 2017

- Researched techniques for characterizing the quality of code submissions to open source projects.
- Prototyped models in Java based on calculations of entropy changes introduced by new pull requests.
- Trained models on existing body of open source bugs, achieving 85% accuracy in classifying fixed and buggy changes.
- Finally, implemented NLP fault localization strategy in preparation for subsequent automatic program repair.
- Code open-sourced at: github.com/ashley/REUSE and github.com/ashley/EntropyLocalization

Draper Laboratory

Software Development Intern

Cambridge, MA

Jan – May 2017

- Performed pattern-matching on database of existing C/C++ bugs for Linux-focused automatic program repair.
- Wrote templates for real-life buffer overflows and complex vulnerabilities that enriched training set for repair tool.

Selected Projects

Boosala • Locate Missing Refugees in Syria

Abu Dhabi Hack April 2018

- Implemented a convolutional neural network that identifies images of missing refugees using NGO video footage.
- Built a web app for querying missing refugees using NodeJS, React, Google's API, and Amazon Rekognition API.
- Was awarded first place hack; collaborated with an Aid and Relief team to integrate specific pipeline for refugees in Iraq.
- Code open-sourced at: github.com/NYUAD-Hackathon-2018/boosala

As / In / Sure • IoT Emotion Analyzer

MIT Media Lab April 2017

- Built a data visualization web app using D3.js that aggregates data from Arduino creation to detect anxiety and danger.
- Code open-sourced at: github.com/ashley/Connected-Care

Activities and Leadership

WinC (Women in Computing) • Vice President, Former Mentorship Coordinator

Aug 2017– Present

Tech@NYU • Infrastructure/Internal Tools Lead

Nov 2017– Present

Square Code Camp • Generation VII Participant

August 2016

Skills

Languages: Java, Python, Javascript, Ruby, HTML, CSS, R

Frameworks/Tools: Android, AWS, D3.js, Git, Gradle, JQuery, Mocha, Node.js, Rails, React, Redux, Vim, Yarn