

# Emily Yu

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## Education

University of Maryland, Baltimore County (UMBC)

Graduated May '19 • GPA: 3.895 / 4.0

- Computer Science B.S., Creative Writing extended minor
- Center for Women in Technology scholar and Honors College member

## Technical Skills

Languages Java • Python • C++ • C • HTML5 • CSS/LESS • TypeScript • SQL • PHP

Technologies Android Studio • WordPress • Angular • Highcharts • Git • Jira • Confluence • Adobe Photoshop

## Work Experience

Technology Analyst @ Morgan Stanley

New York, NY • Aug '19 - Present

Undergraduate Teaching Assistant @ UMBC

Baltimore, MD • Aug '17 - Dec '18

- Led a weekly discussion section of twenty students, covering basic Python syntax and programming concepts
- Graded students' course assignments and troubleshoot issues with their code during weekly in-person office hours
- Participated in TA meetings to discuss course content taught over each week, as well as student progress

Software Engineering Intern @ JPMorgan Chase & Co.

Newark, DE • Jun '18 - Aug '18

- Created an internal web-based dashboard on an Agile team, and later presented the product to clients in the firm's Asset Management line of business
- Implemented a dynamic bar graph and table to display trading information for the start of the work day using Angular, TypeScript, HTML, and LESS
- Developed a mock server using Node.js that feeds JSON-formatted data files to the front end

Cyber Intern @ Prime Solutions, LLC

Columbia, MD • Jun '17 - Aug '17

- Edited and debugged leaked malware source code (in C++) to validate functionality for use with an APT Simulator
- Developed a Python Flask server to receive POST/GET requests and system files from a malware-infected client
- Implemented a Python script to produce an OpenIOC STIX-formatted report of server-side statistics (e.g. bytes sent, specific IPs and ports utilized)

Information Systems & Global Solutions Intern @ Lockheed Martin

Arlington, VA • Jun '16 - Aug '16

- Performed Python unit testing on parts of the new GSA Advantage! Formatted Product Tool (FPT) baseline
- Wrote a Python parsing algorithm to read an operational log of events and create FPT reports for later analysis
- Coded a Java program to generate data mappings for FPT, using government contract info supplied by text files

## Projects

InstantChef

Spring '19

- Created a mobile application in Java that allows users to efficiently filter out recipes, based on the ingredients they currently have in their digital pantry
- Utilized the Firebase Realtime Database (for storing user information and recipes), as well as the Authentication Service (for creating accounts and logging users in)

System Assisting First Responders in Emergencies (SAFE)

Fall '18

- On a team of five, built a web application that allows dispatchers to efficiently assign missions (involving natural disasters and other emergencies) to first responders
- Coded and designed the application's user interface using HTML5, CSS, and JavaScript

Google CodeU Chat Application

Spring '17

- Coded a graphical user interface for a chat application in Java, over the course of a twelve-week online program
- Participated in monthly meetings with a Google software engineer to discuss code improvements and team progress