Jesse Wu

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🎓 Education

University of Maryland at College Park, College of Computer, Mathematical and Natural Sciences
Bachelor of Science in Computer Science (expected May 2020)

> Relevant Courses : Introduction to Data Science, Algorithms, Discrete Structures, Organization of Computer Languages, Introduction to Computer Systems, Applied Probability and Statistics, Linear Algebra for Scientists and Engineers

> Future Courses : Introduction to Machine Learning, Data Structures

💼 Experience

June 2018– July 2018

Software Engineer/Data Analyst Intern, Xiaomi, Beijing, China.
Part of the Big Data portion of the Arificial Intelligence agile group that provided solutions and analysis used by Xiao AI developers

> Created automated daily data retrieval service from HTTP servers utilizing vanilla Python and formatting using HTML.

> Designed and built a pipeline using Flask that delivers HTML formatted "bad query" data pulled from Apache Hadoop clusters via Hive. (Later reconfigured to run on XiaoMi's cloud computing platform.)

`Python` `Scrum` `Atom` `Git` `Flask` `HTTP` `HTML`

May 2017– Aug. 2017

Software Developer Intern, Fannie Mae, Herndon, VA.
Part of the REO-VS(Real Estate Owned - Valutation System) agile team that helped maintain and develop features for their property evaluation application

> Improved overall efficiency by eliminating redundant code and solving several known issues regarding improper I/O stream exception handling.

> Improved overall test coverage of web controllers by over 30% through white-box testing utilizing Mockito and Spring frameworks.

`Java` `Eclipse` `Scrum` `Git` `Maven` `Spring` `Mockito` `mySQL`

📝 Projects

Audio Waveform Visualizer
Application that reads .wav files and generates a waveform in sync with audio playback

> Reads audio .wav file into raw data. Creates accurate waveform by transforming data from stereo to mono.

> Plots and formats data to accurately depict an audio waveform. Timed playback to be in sync with music.

Personal Website
Animated webpage using HTML, CSS and JavaScript (https://jesse-wu20.github.io/)

> Utilized anime.js and typed.js to create logo

> Wrote Chinese letters stroke by stroke using SVG to accurately depict writing sequence

> Created separate version for mobile devices

☰ Technical Skills

Languages :	java, C, Ruby, HTML, CSS, JavaScript, Python, OCaml, Rust, SQL, LaTeX, JSON
Programs/Tools :	Eclipse, Visual Studio, Terminal, Atom, TeXstudio, Bitbucket(Git), Microsoft Office

💼 Activities

May 2018– Present

Fundraising Chair, Korean Student Association, College Park , MD.
Elected executive board of approximately 200 member social organization aimed at promoting culture and community building.

> Obtained concession fundraising contract worth around $6000 within first month of being elected.

> Conceived and drafted contract with the Taiwanese Student Association to collaborate on concessions.