**Lillian Wang**

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**EDUCATION**

**The University of Texas at Austin** -Austin, TX Dec 2019

Bachelor of Science, Chemical Engineering 3.5/4

**Certificates**: Elements of Computing, Business Foundations

**App Academy** -New York, NY Summer 2019

Rigorous software engineering bootcamp resulting in 1000+ hours of programming experience with a less than 3% acceptance rate

**SKILLS** Python, React, Redux, Ruby, Ruby on Rails, JavaScript, Express, jQuery, SQL, Git, HTML5, CSS3, Aspen Graphics Editor/Process Explorer, MatLab, AutoCAD & Autodesk Inventor

**PROJECTS**

**lilDocs** (Rails, React, Redux, React-Quill, HTML5, and CSS3)[**Live Site**](http://lildocs.herokuapp.com/) **|[Github](https://github.com/lilwanngg/lilDocs)**

*A fullstack, single-page GoogleDocs clone where users can create rich-text documents, add comments, and share documents with other users.*

* Constructed a custom backend and two-factor frontend user authentication by combining Rails conventions, Active Record, and customized React-Router protected and authorized routes
* Implemented full CRUD (create, read, update, delete) functionality for documents, sharing permission, and commenting
* Designed a rich-text editing toolbar with custom functionalities using the react-quill library as well as a debounced auto-save function to provide users a robust and seamless editing experience

**MÜD** (JavaScript, Express, D3.js, Spotify API, HTML, and CSS) [**Live Site**](http://mud.herokuapp.com/) **|** [**Github**](https://github.com/lilwanngg/mud)

*A pure JavaScript data visualization where users can interactively filter their Spotify listening histories to view trends in their top played tracks.*

* Incorporated Spotify Web API to authenticate users with unique access tokens, extract listening history, and select relevant elements of tracks
* Conceptualized user listening history utilizing D3 to create personalized and dynamic visualizations of track features, allowing users to interpret trends in listening data
* Applied k-means clustering theory to identify and pinpoint the largest cluster of a user’s data based on each feature

**EXPERIENCE**

**Samsung, *Test Technology Intern*** - Austin, TX Summer 2018

* Scripted in C++ to automate the process of capacity planning for wafer testing by reconciling monthly production planning with run times, resulting in 50% reduction in time spent planning
* Automated the pulling of daily resistance check reports using Samsung’s proprietary software and analyzed these reports to distribute updates on probe card health concerns
* Designed automated wafer contamination report to mimic composite defect maps for preventing tool downtime

**Ascend Performance Materials, *Packout & Logistics Co-op*** - Pensacola, FL Fall 2017

* Structured excess inventory control system using Kanbans to reduce total material kept by 20% for $20K savings
* Created VBA programs to automate the process of measuring takt time for Packout areas and implemented system for real-time takt display boards for production areas
* Analyzed major causal factors for demonstrated rate of production lagging behind maximum potential rate using Lean Six Sigma tools

**LEADERSHIP**

**Kappa Theta Epsilon *(Co-op Honor Society*)** - President, Mentorship Chair, Publicity Chair Aug 2018 – Dec 2019

* Facilitated team meetings and managed administrative duties of the organization, fulfilling and surpassing the requirements set by the UT Student Engineering Council
* Founded mentorship program with 30 recruited mentees and mentors with a focus on personal development, job search preparedness, and expanding the visibility of the co-op program
* Produce and manage print and social media advertisements for various recruiting and fundraising events, resulting in sizeable attendance for first time events