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** | **Github**

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** | **Github**

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