Lillian Wang

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PORTFOLIO lilwanngg.github.io · **GITHUB** github.com/lilwanngg

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

Proficient: React, Redux, Python, Ruby, Ruby on Rails, JavaScript, SQL, Express, PostgreSQL,
Working Knowledge: C++, jQuery, SQLite3, Git, Aspen Graphics Editor/Process Explorer

PROJECTS

lilDocs (React, Redux, Rails, React-Quill) — **Live Site** | **Github**
A full-stack, single-page GoogleDocs clone where users can create rich-text documents, add comments, and share documents with other users.

- Constructed two factor user authentication by implementing controller methods to verify user existence and customized React-Router protected and authorized routes to allow for proper safeguarding of certain links
- Integrated full CRUD functionality for each component in a separate context for a seamless experience for users: documents within the index page, sharing permissions within modals (future implementation: comments within documents)
- Designed a rich-text editing toolbar with custom functionalities as well as a debounced auto-save function to provide users a robust and fully-featured editor

MÜD (JavaScript, Express, D3.js, Spotify API) — **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.

- Conceptualized user listening history utilizing D3 to create personalized and dynamic visualizations of track features, allowing users to interpret trends in listening data based on quantified measures of valence, tempo, danceability, and energy
- Incorporated Spotify Web API to authenticate users with unique access tokens, extract listening history, and select relevant elements of tracks
- Applied machine learning k-means clustering theory with 1000 iterations to identify and pinpoint the largest cluster for each combination of data

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 in production areas, allowing production workers to gauge daily performance and meet goals more consistently
- Analyzed major causal factors for demonstrated rate of production lagging behind maximum 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
- Produced and managed print and social media advertisements for various recruiting and fundraising events, resulting in sizeable attendance for first time events