Jimmy Lam

Full-stack Engineer

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Self-taught full-stack web developer with emphasis on the front-end of the stack

EDUCATION

University of Toronto
BASc Materials Science and Engineering | Sep, 2016 - April, 2021
- GPA: 3.76/4.0

WORK EXPERIENCE

Cert Systems Inc.
Electrochem Systems Engineer | May, 2019 - May, 2020
- Built a PyQt5 desktop application to automate workflow in an industrial pilot plant that reduces hundreds of hours of data collection and analysis.
- Proposed, designed and built the app from scratch with inputs from engineers on the team
- Integrated multiple proprietary software and python packages such as PyAutoGUI and matplotlib to fully automate the workflow

PROJECTS

Hyperloop Regenerative Braking
Engineering Capstone Project Lead | Sept, 2020 - April, 2021
- Lead a team of multidisciplinary engineering students to design and build a proof of concept regenerative braking system on a Hyperloop pod
- Took responsibility in organizational, conceptual design and subsystem implementation that keeps the team focused and able to produce high quality deliverables throughout the year

UTHT Hyperloop Control Dashboard
Full-stack engineer team member | Sept, 2020 - April, 2021
- Designed and implemented a remote control dashboard for a Hyperloop pod using Angular on the front-end and a websocket Node.js server to provide real-time communication with the pod
- Increased productivity by mentoring team members with unfamiliar concepts
- Participated in the early architectural design of the system that helps reduce rewrites in the later stage

Spotify Web Player Clone
Personal project | May, 2020 - August, 2020
- Built a React front-end clone of the Spotify Web Player that integrates with the official Spotify API to display personal informations such as playlists and play music from the browser
- Designed and built a Node.js/Express server that integrate the OAuth authentication and authorization flow of the Spotify API to provide a more secure login experience

ADDITIONAL

- **Languages:** Python, Javascript, SQL, Node.js, Typescript, HTML, CSS/SASS
- **Frameworks:** React, Angular, Express, serverless, Next.js
- **Tools:** Mongo, Postgres, AWS, GCP, postman, git