

Christopher Chan

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WORK EXPERIENCE

Process Engineer / Intel, Hillsboro, OR

Jun 2022 – Present

- Increased efficiency and clarity for engineers by rebuilding the website using **ReactJS**, migrated database pulling from **VBA** scripting to **Python** and **SQL** to serve as the website backend database, deployed website onto Intel web servers
- Developed dashboards that visualized data trends for wafer processing tools using **PowerBI**, resulting in improved data-driven decision-making for manufacturing processes and identifying solutions for unexpected tool errors.
- Participated in a gig aimed at identifying manufacturing limiters by leveraging and visualizing data
- Automated daily tasks using **Python**, effectively reducing time spent on repetitive activities and allowing for increased focus on high-impact issues and priorities
- Collaborated with engineers to develop models to troubleshoot tool issues and designed experiments to evaluate the models

Engineering Project Management Intern / Pfizer, Pearl River, NY

May 2021 – Apr 2022

- Supported engineering projects, participated in project planning meetings, and managed multiple projects simultaneously
- Coordinated with scientists and engineers to define project scope, resulting in development of 25+ laboratory rooms
- Assisted in the construction of laboratory facilities, ensuring adherence to industry standards and regulations

SKILL

C++, Django, Excel, Express, HTML/CSS, JavaScript, JMP, MongoDB, PowerBI, Python, R, ReactJS, STATA, SQL, Toad

PROJECT

Personal Website

Ongoing

- Developed a visually appealing, responsive personal website using **MERN** framework, showcasing a variety of projects such as machine learning projects, simple **ReactJS** applications, and websites built with **Django** framework
- Deployed and maintained live websites using GitHub Pages and PythonAnywhere

Process Simulation – Cooper Union

Apr 2021 – May 2021

- Developed a model to predict key properties of organic solvents using limited experimental data
- Applied chemical engineering concepts (Rachford-Rice, Raoult's law, Van't Hoff) and numerical methods (Gradient descent, Newton's method, Lagrange polynomial) on **Python** to implement the model effectively
- Significantly reduced the need for bench experiments by utilizing the model to determine intrinsic chemical properties

CERTIFICATION

IBM Data Science

Nov 2022

- Conducted capstone project to determine successful landing of SpaceX's Falcon 9 using machine learning models.
- Utilized data collection (**API**, **BS4 webscraping**), cleaning, and analysis methodologies with **pandas**, **SQL**, and data visualization libraries (**plotly**, **folium**, **seaborn**)
- Identified key features correlated to rocket launch success and concluded that decision tree model achieved highest accuracy of 0.89 based on confusion matrix and score analysis.

Google Data Analytics

Oct 2022

- Cleaned 5.8M observations and created visualizations using **R** to visualize difference between casual and member riders
- Identified temporal and seasonal variations in the usage patterns of casual and member riders, offering potential avenues for converting casual riders to members

EDUCATION

The Cooper Union for the Advancement of Science and Art

Sep 2018 - May 2022

Bachelor of Engineering, Chemical Engineering, GPA: **3.55**