Max Dan Li

maxdanli.com - LinkedIn

Education

Cornell University, College of Engineering

Dean's List 3.5 GPA, May 2023

BSc in Mechanical Engineering, Dyson Business Minor for Engineers

Advanced Topics in Machine Learning (PhD class), Robot Learning and RL, Data Science and Inequality, Fast Robotics, Advanced Product Design, Technology Strategy, Mechatronics, Finance, Economics

Professional Experience

Associate Operations Consultant

6 months; June 2021 - Dec 2021

Chartwell Consulting

- Presented on 20-30% manufacturing efficiency improvements to pharmaceutical client C-suite, translating to 50%+ site-level profit increase per year
- Conducted intensive quantitative and qualitative data analysis on machine-level operational efficiency of pharmaceutical bottling lines, demonstrating ability to collaborate closely with executive to temp-worker level staff
- Led development of novel prospect development KPIs, metrics, web scraping tools to accelerate project sales to US, UK, and EU private equity firms

Data Analyst, iPhone Technical Product Operations

June 2021 – Dec 2021

Apple, inc.

- Designed high-quality end-to-end data solutions for camera lens production to reduce data processing (ETL) workloads by 90% with Tableau, machine learning, and Hadoop related cloud computing tools
- Independently wrote new Python packages for a data pipeline for 40x faster data transformation from SQL databases and file sharing platforms for file- and format-agnostic data interpretation with Python
- Praised by Director-level leadership for outstanding presentation skills to optics engineering and lens operations groups to build pathways for expansion for a new internal data analytics solution

Engineering & Business Development Associate

Jan 2021 - May 2021

Bluespace.ai – Autonomous driving startup with Forbes 30u30 CEO

- Helped win the 2021 Nasa iTech grant in leading design and implementation of mission-critical investor and partnership materials, with data-driven analysis of ADAS, OEM vendors, and Tier 1 competitors and partners
- Overhauled company branding and web presence using HTML, CSS, and JavaScript web development programming, with implementation of Google Analytics-enabled SEO strategies for improved sales funnel

Mechanical Engineer October 2019 - June 2023

Cornell University Autonomous Underwater Vehicles – 2022 Robosub 6th

- Cut 30% cost and 50% production time of underwater systems with improved DFM and DFA, using SolidWorks CAD, FEA, and Autodesk machine learning generative design
- Organized 4-stage design review process, collaborating with cross-functional teams, to promote efficient vehicles systems integration of electrical, software, and mechanical teams for autonomous mobility

Projects

November 2022 – Present **Breathe+**

Tele-health Pulmonary Rehabilitation at breathepl.us

Web development for personal non-profit project for improving healthcare accessibility

ModelMonkey August 2023 - Present

Low-code Machine Learning Model Builder

React app development for improved and interactive visualisations for machine learning academia

MoFlowGAN June 2023

Combining adversarial and likelihood learning for targeted molecular generation

Second author of pre-print Al paper viewable at chemrxiv

October 2019 - Present **RainGAN**

High-fidelity generative environmental audio from 10 seconds of data

Personal AI project based Improved RVQGAN, Catch-a-Waveform, and Encodec papers with novel improvements