

CHRIS HORNG

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“Looking for an entry-level data scientist who comes with a reasonable price tag, but also brings along senior engineering experience, leadership and mentorship skills, and project management expertise? Look no further! I am the candidate you've been searching for!!”

Bonus: quick learner, adaptivity, easy-going, cross-functional communication, team building person.

Technical Skills

Languages: SQL, Python, JavaScript, HTML, CSS, Microsoft Excel VBA, MatLab

Applications: Machine Learning (Tensorflow, Sklearn, Imblearn), Data Analysis (Seaborn, Matplotlib, Pandas), Queries

Tools: Tableau, pgAdmin/PostgreSQL, AWS, Jupyter Notebook

Professional Experience

Senior Hardware Engineer - Luminous Computing - Mountain View, CA 2021.01-Present

- Using Python libraries statistically analyzed process data and improved product yield to 97%
- With Machine Learning framework, scikit-learn developed an algorithm to predict product failure
- Developed Python-based intelligent image analytics for defect detection improving 94% pass rate
- Partnered with CTO on product strategic analysis, leading several product KPI investigation such as reducing product cost by 30% via conducting cost competitive analysis, and presented to key stakeholders
- Led 10+ engineers department's project management achieving company's first key milestone within the timeline
- Managed 2 processing technicians with data analytics onboarding, mentored a mechanical engineer and summer intern

Hardware Engineer - Cisco - San Jose, CA 2017.09-2021.01

- With Weibull statistical analysis, improved product lifetime reliability by 2x to 10 years
- Developed A/B test with statistical sampling plan & analysis for optimized and landed product to production
- Tableau analysis and visualization on product failure data to provide customer usability insight
- Effectively led cross-functional communication to address team needs during overall planning as well as supplier management

Engineer Summer Intern – Micron – Boise ID 2016.06-2016.09

- Analyzed product quality using advanced imaging techniques and data visualization tool, such as Matplotlib. Successfully improved product yield by 20% through my data-driven insights and recommendations

Marketing Summer Intern – HTC – Taipei, Taiwan 2013.06-2013.08

- Conducted product marketing analysis reporting to Marketing VP with survey through public events and social media

Projects

Bank Customer Churn Prediction - Project Lead

- Data ETL through Spark, extracting data from cloud based AWS S3, data clean, load data to RDS for EDA on pgAdmin
- Data preprocessing with outlier removal, sample imbalance resampling, and feature engineering,
- Trained 93% accuracy ensemble tree based model on customer churn prediction with various machine learning models and hyperparameter tuning as well as sample imbalance resampling, and data preprocessing prior to model optimization

Bike Sharing Customer Insight Analysis

- EDA using Python libraries (Pandas, Matplotlib, Seaborn) exploring customer data like overall customer population distribution, and data cleaning before importing to Tableau
- Analyzed and visualized customer engagement via Tableau of NYC bike sharing service. The goal is to improve existing customer retention and acquire new customers by using the insights and features developed from the data analysis.

Earthquake Geomap Visualization

- Developed webpage visualization for Earthquake analysis via JavaScript, Leaflet, Powered Interactive Map
- Collected geographical data with d3.json

Education

University of California, Berkeley, Data Science Bootcamp 2022-2023

University of California, San Diego - Master of Science 2015-2017

- Certificate: Technology Management & Entrepreneurism Program - Rady School of Management

- Certificate: Leadership & Project Management Program

University of Illinois at Urbana-Champaign - Bachelor of Science 2011-2015
Materials Science and Engineering