

Cindy He

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EDUCATION

University of California, San Diego

La Jolla, CA

B.S., Mathematics-Computer Science — Provost Honors, GPA: 3.78

2024 - 2026

Relevant Coursework: Algorithms and Data Structures, Sys Prog and Software, Machine Learning Algorithms, Data Science, Probability, Linear Algebra, Numerical Methods

EXPERIENCE

Arculus System

Hsinchu, Taiwan / Irvine, CA

Cloud Design Software Intern

Jun 2025 - Sep 2025

- Contributed to B2B software products for semiconductor engineering teams by analyzing customer workflows, configuration pain points, and usability gaps across iProfiler and Design Integrator.
- Supported iProfiler frontend workflow improvements with JavaScript/React, redesigning the rule editor experience to make technical parameter configuration clearer and more intuitive.
- Used SQL to query configuration data, user inputs, and system outputs, helping trace how frontend actions connected to backend product behavior and data flow.
- Worked within a CI/CD-based development workflow and partnered with Sales and R&D to translate customer needs and IC/EDA concepts into product improvements, technical documentation, and demo-ready materials.

Stio

Taichung, Taiwan

Social Media Manager & Inventory Support

Nov 2021 - Dec 2022

- Managed product listings, pricing, and stock status across the brand's online store and Facebook Shop, ensuring storefront data accuracy while monitoring inventory levels and sell-through trends to flag overstock and understock risks.
- Tracked campaign and sales performance metrics in Excel, using engagement, customer response, and sell-through data to evaluate campaign effectiveness and inform content strategy, merchandising decisions, and future launch planning.

PROJECTS

Predictive Modeling & Data Insights Analysis

Python (scikit-learn), NumPy/pandas, Experiment Design, Model Evaluation

Dec 2025

- Built an end-to-end analytical workflow comparing five supervised learning models across four UCI tabular datasets using stratified cross-validation and hyperparameter tuning.
- Evaluated performance across multiple train/test splits and random seeds to analyze stability, generalization, overfitting risk, and model selection tradeoffs.
- Synthesized results into data-informed recommendations supported by visuals and written analysis, translating technical findings into clear decision-making insights.

Ecommerce A/B Testing & Retail Funnel Performance Analysis

BigQuery, SQL, Python, pandas, statsmodels, matplotlib

Jun 2026

- Built a simulated A/B testing workflow using BigQuery ecommerce event data to compare product-to-purchase conversion between traffic-source segments.
- Applied a two-proportion z-test to evaluate Email vs. YouTube performance, finding a 1.15% lift that was not statistically significant at the 95% confidence level.
- Analyzed funnel conversion, category-level revenue, and AOV trends, identifying Outerwear & Coats as the strongest category by both total revenue and AOV.

SKILLS

- Product Ops: workflow analysis, process improvement, KPI tracking, funnel analysis, A/B testing, documentation, stakeholder communication
- Data & Automation: SQL, Python, Excel, BigQuery, pandas, NumPy, data cleaning, data validation, reporting, dashboarding, workflow automation
- Technical Tools: JavaScript, React, Git, Linux, Docker, Tableau, Google Analytics, Java, C++, MATLAB, R
- Languages: Mandarin Chinese (fluent), English (fluent)