Jonathan Fung

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Education

University of California, Irvine　　　　　　　　　　　　　　　　　　　*Irvine, CA*

B.S. MATERIALS SCIENCE ENGINEERING, MINOR IN STATISTICS, GPA: 3.7/4.0, *Cum Laude*　　　*Sept 2018 - Dec 2021*

- **Select Coursework:** Semiconductors, Polymers, Ceramics, Nanomaterials, Manufacturing, Thermodynamics, Engineering Computation, Linear Algebra, Differential Equations, Statistical Data Analysis I & II, Probability I & II & III, Human-Computer Interaction

Skills

Technical　C++, Python (pandas, numpy, airflow), R (tidyverse), Haskell, Lisp , SQL (Postgres), LaTeX, Linux

Soft　Research, Problem Solving, Attention to Detail

Experience

Self-Employed　　　　　　　　　　　　　　　　　　　　　　　*Irvine, CA*

GIG WORKER & PRODUCTION ASSISTANT　　　　　　　　　　　　　　*July 2024 – Present*

- DoorDash Driver with 250+ deliveries, 4.97/5 rating, 98% on-time or early
- PA at MDEV 2024. Managed time-tables, shipment coordination, attendee registration, and crowd control

Harmony Analytics 🔗　　　　　　　　　　　　　　　　　*Atlanta, GA (Remote)*

DATA SCIENTIST　　　　　　　　　　　　　　　　　　　　　*Dec 2022 - July 2024*

- Research and understand data reporting methodologies across various sources (public and private sector)
- Create algorithmic model to predict corporate demographic data for 3.6k companies
- Build automated reporting and monitoring for multimillion-dollar fund
- Build data infrastructure with Python, AWS (S3, RDS), Airflow, Docker, and Postgres

American Heart Association 🔗　　　　　　　　　　　　　*Dallas, TX (Remote)*

FREELANCE CONSULTANT - UX DESIGN　　　　　　　　　　　　　　*July 2021 – Nov 2021*

- Research and analyze internal business logic and competitors' designs
- Produce wireframes and prototypes to conduct qualitative and quantitative user testing
- Adhere to accessibility standards and work with internal design system

Meyer Sound 🔗　　　　　　　　　　　　　　　　　　　　*Berkeley, CA*

OPERATIONS INTERN　　　　　　　　　　　　　　　　　　　*June 2019 – Sept 2019*

- Maintained compliance data from UL, TUV, CE, IEC, and CCC for company's entire product range
- Originated and processed Engineering Change Order (ECO) reports. Updated 50+ documents to include revised RCM Mark and CCC Label
- Created various model labels with Adobe Illustrator following compliance standards

Projects

leyval ⚙

- Agent-based model simulation of order book liquidity dynamics
- Focus on procedural fairness of various matching systems
- Written in C++20

Hyphenation ⚙

- Implementation of Knuth–Liang Hyphenation algorithm, referenced Liang's PhD thesis
- Written in Gleam

Kren ⚙

- Visualize and analyze relationship of Korean and English languages in K-pop lyrics
- Conceived informative visualizations, Researched suitable statistical analyses
- Written in R (ggplot2, dplyr)