

Yu Wen (Naomi) Chiu

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415-691-9536 | San Francisco, CA | Open to remote and relocate

EXPERIENCES

The West Hogwarts, Inc., **Consulting Engineer** Jul 2023 – present
(A startup has been offering construction and remodeling solutions in San Francisco since 2021)

- Design and develop the company's website, resulting in a user-friendly and visually appealing online presence that enhance the brand's image and user satisfaction
- Innovate novel software products employing Generative AI to revolutionize floor plan generation for single-family homes and commercial offices in the context of home remodeling services

University of San Francisco, **Researcher & Teaching Assistant** Aug 2021 – Dec 2022

- Utilized a two-sided fixed-effects **causal inference** model to analyze and quantify the scope of Covid-19 cases' impact on commuters in the US
- Facilitated 6 group discussion sessions for 40+ graduate students in the courses Microeconomics, **Experiments & Causal Inference**, and **Advanced Experimentation (A/B testing)**
- Acted as a key liaison to reshape the curriculum and homework materials and tailor the course for each student to support individual growth, and ultimately improve their performance by 5%

Akousist Technology, **Data Engineer** Jun 2021 – Sep 2021

Led analytical projects and enhanced database processes

- Developed **data pipelines** using **PySpark** and **Airflow** (DAGs) to integrate web scraping, data cleaning, data preprocessing, and sentiment scoring techniques. These pipelines were used to store the transformed data (5 million+ records) in **MongoDB**
- Collaborated with cross-functional teams to implement **machine learning** and Transformer-based models, such as BERT using **PyTorch**, for finance-related cases and published the findings in an academic paper
- Increased business-critical sales by 10% through website development using **Docker/ Flask/ MySQL**

AVerMedia Technology, **Software Engineer** Jan 2019 – Dec 2020

Managed large data volumes and processes and provide cross-functional support to engineering and operations teams

- Orchestrated **data preprocessing** with **Python (OpenCV)** on **Linux** for unstructured datasets (1 million+ records) stored in AWS S3, resulting in a significant 25% improvement in prediction accuracy for **machine learning** projects
- Partnered with cross-functional teams to deploy **deep learning** models, such as YOLOv3 using **TensorFlow**, for AI-driven solutions in the retail and automotive industries, which led to the acquisition of 5 clients
- Collaborated with engineers in three different regions using **Git** and **CI/ CD** practices
- Catalyzed user engagement and retention through a Model-View-Controller backend for third-party OAuth authentication in Django with **PostgreSQL** deployment on AWS, achieving a 20% boost in user interaction

National Chengchi University, **Data Analyst** Jul 2015 – Jul 2018

- Led a team of three data analysts in utilizing market analysis to execute marketing campaigns, yielding a 10% increase in the effectiveness and attendance of executive education programs (150+ attendees)
- Utilized **Python (Pandas/Numpy)** to develop **regression models** and achieved an 8% enhancement in participant experiences across various events via satisfaction analysis conducted with feedback surveys
- Generated weekly volume reports and performed data visualization tasks with **PostgreSQL** and **Tableau**

PROJECTS

Real-Time Stock Market Streaming and Forecasting

- Constructed a data pipeline integrating **Kafka** with **AWS EC2**, **Athena**, and **Glue**
- Implemented machine learning-based trading strategies, including **Random Forest** and **Reinforcement Learning**, to enhance trading decisions and provide valuable insights to decision-makers

EDUCATION

Georgia Institute of Technology

Master of Science - Computer Science

Expected: May 2024

Notable Courses: Machine Learning for Trading, Database Systems Concepts and Design

University of San Francisco

May 2023

Master of Science - Applied Economics (GPA: 3.8)

Notable Courses: Data Structure & Algorithms, Natural Language Processing, Intro Statistical Modeling, Intro Machine Learning

TECHNICAL SKILLS

- Programming Languages: **Python**, **SQL**, **R**, **Java**
- Data analytics: Statistical Modeling, **Machine Learning**, **Deep Learning**, Natural Language Processing, Computer Vision, **PyTorch**, Scikit-learn, **Experimental Design**, **A/B Testing**, Hypothesis Testing, Causal Inference
- Tools: **Kafka**, **AWS (S3, EMR, EC2, Glue, Athena, Redshift)**, **MySQL**, **PostgreSQL**, **MongoDB**, **Snowflake**, **Airflow**, **ArcGIS**, **Tableau**, **Flask**, **Django**, **Docker**, **REST APIs**, **Agile Scrum**, **Git**, **Jira**