Yu Wen (Naomi) Chiu

ychiu60@gatech.edu | linkedin.com/in/naomichiu | github.com/chiuyuwen91/Portfolio

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

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: DBT, Kafka, AWS (S3, EMR, EC2, Glue, Athena, Redshift), **MySQL**, **PostgreSQL**, **Snowflake**, ArcGIS, Tableau, Flask, Django, Docker, REST APIs, Agile Scrum, Git, Jira

EXPERIENCES

The West Hogwarts, *Consulting Engineer* **Jul 2023 – present**
- Developing novel software products that utilize Generative AI approaches to generate floor plans for providing home remodeling services to single-family homes and commercial offices

University of San Francisco, *Researcher & Teaching Assistant* **Aug 2021 – Dec 2022**
- Facilitated 6 group discussion sessions for 40+ graduate students in the courses Microeconomics**, Experiments & Causal Inference**, and **Advanced Experimentation**
- Served as a liaison to revise the existing curriculum and homework materials to enhance students' technical skills in alignment with the department's learning objectives

Akousist Technology, *Data Engineer* **Jun 2021 – Aug 2021**
Led analytical projects and enhanced database processes
- Developed data pipelines using **PySpark** and **Airflow** (DAGs) to integrating web scraping, data processing, and **data modeling** techniques to store the transformed data within **Snowflake**
- Collaborated with senior engineers, employing Graph Convolutional Networks and deep learning transformers for text sentiment analysis with **PyTorch** framework to perform equity valuation predictions
- Designed dashboards in **Tableau** to analyze sentiment-based trading predictions in **Snowflake**
- Enhanced business-critical sales demos by 10% through the development of websites using **Docker**/ **Flask**/ **MySQL**

AVerMedia Technology, *Software Engineer* **Jan 2019 – Jan 2021**
Managed large data volumes and processes and provide cross-functional support to engineering and operations teams
- Orchestrated **data preprocessing** with **Python (OpenCV) on Linux** (Ubuntu) system for unstructured datasets (1 million+ records) stored in AWS **S3** resulted in a significant 25% enhancement in prediction accuracy for machine learning projects
- Partnered with cross-functional teams to deploy **deep learning** models such as YOLOv3 using the **TensorFlow** framework for AI-driven solutions in the retail and automotive industries
- Efficiently collaborated with engineers in three different regions using **Git** and **CI/CD** practices
- Implemented Model-View-Controller backend for third-party OAuth authentication with **Django** and construct **PostgreSQL** on the **AWS** to increase users' engagement and retention by 20%

National Chengchi University, *Data Analyst* **Jul 2015 – Jul 2018**
- Led a team of three data analysts using market analysis to execute marketing campaigns to increase the effectiveness and attendance of executive education programs by 10%
- Employed **Python (Pandas/ Numpy)** for conducting satisfaction analysis using participant feedback surveys to enhance the overall student experience throughout the events
- Generated weekly volume reports and performed data visualization tasks with **PostgreSQL** and **Tableau** to facilitate the delivery of more valuable content

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