

Keenan Chan

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SKILLS

Languages SQL (MySQL, PostgreSQL), R, **Python** (NumPy, Pandas, Matplotlib, Sklearn, PyTorch, PySpark)
Software Azure Databricks, Amazon Web Services, Tableau, Git, Docker, Grafana, RabbitMQ
Skillsets Business Analytics, Data Engineering, Data Analytics, Software Engineering, Machine Learning
Certifications AWS Certified Cloud Practitioner

EXPERIENCE

Kin + Carta

Data Analyst/Engineer II

Apr. 2022 - Nov. 2023

Skills: Python, SQL, AWS, Azure Databricks, Splunk

Remote

- Developed and was responsible for **Databricks** ETL (Extract, Transform, Load) pipeline generating a mission-critical database for **13 million customers** across **13 countries** as a contractor for **Starbucks**
- Engineered **Python** library with **Databricks Unity Catalog** promoting **data governance** best practices while contracting for **General Motors**, presenting to technical and non-technical stakeholders
- Analyzed more than **25 million rows** of customer data using **Databricks** focusing on **customer acquisition**, directly presenting strategic recommendations to analytics stakeholders at **Starbucks**
- Engineered report generation pipeline leveraging **Python**, **Matplotlib** and **Jupyter Notebook**, enabling on-demand creation of **8 supply chain reports** for **15,000 Starbucks locations** across North America
- Created internal dashboards and email alerts using **Splunk**, decreasing average client incident response time from 3 hours to **20 minutes**, representing an **88% reduction** in response time

Analyst/Engineer (Contract)

Jan. 2021 - Mar. 2022

Skills: Python, SQL, AWS (Lambda, DynamoDB, CloudFormation), Terraform

Remote

- Migrated two core client APIs to **AWS Lambda** deployment leveraging **Terraform** contracting for **Granular**
- Used **AWS (DynamoDB, CloudFormation)** to migrate two critical SQL tables for **Uplight** totaling **350,000 records**, working in an **Agile** environment, maintaining database version control using **Alembic**

EDUCATION

University of Washington – Michael G. Foster School of Business

June 2024 - June 2025

M.S. Business Analytics (**GPA: 3.8**)

Seattle, WA

- Graduated within **top 10% of cohort**

Selected Coursework: Causal Machine Learning, Competitive Strategy, A/B Testing, Pricing Analytics, Supply Chain Management, Data Visualization with Tableau, Customer Analytics, Digital Marketing Analytics

University of California, San Diego

Sept. 2016 - Sept. 2020

B.S. Mathematics-Computer Science, Economics minor

La Jolla, CA

PROJECTS

Hong Kong Subway Visualizer (mtr.keenanchan.com)

July 2025

Skills: RabbitMQ, PostgreSQL (TimescaleDB, PostGIS), Docker, Grafana

- Leveraged **RabbitMQ** message broker and **Docker** to visualize subway trains in real time in Hong Kong
- Interpolated train location from real-time ETA information, fully deployed, visualized with **Grafana**

Credit Card Fraud Detection (fraud-detection.keenanchan.com)

Mar. 2025

Skills: K-Means Clustering, Random Forest, XGBoost

- Analyzed and processed over **590,000 credit card transaction records** for fraud detection
- Utilised **SMOTE (Synthetic Minority Oversampling Technique)** to address dataset class imbalance
- Achieved 0.929 ROC AUC through using **Random Forest** classification

TAPS Grief Journey Classifier (Purdue Data4Good Case Competition 2024)

Nov. 2024

Skills: Sklearn, TF-IDF, Random Forest

- Prepared **3000 military survivor testimonials** for training, using **Sklearn** and **TF-IDF vectorization**
- Achieved **95% accuracy score** using a **Random Forest** classifier, determining current stage of grief and appropriate course of action for each survivor
- Achieved **1st on Kaggle** out of **290 teams**