

# Hinson Yuen

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## EDUCATION

### University of California, Berkeley

Bachelor of Arts in Data Science | Expected 2027 | GPA: 3.5/4.0

Relevant Coursework: Machine Learning (EECS 189), Data Mining & Analytics (Data 144), Probability for Data Science (Data 140), Introduction to Data Science (Data C100), Data Structures & Algorithms (CS 61B)

## TECHNICAL SKILLS

Programming & Data: Python, SQL, R, Pandas, PostgreSQL, C++, Java

Machine Learning: Neural Networks, Clustering, PyTorch, TensorFlow, Hugging Face, LLM APIs, Prompt Engineering

Analytics & Engineering: Statistical Modeling, Data Cleaning, ETL, Data Pipelines, Tableau, Looker, Excel, Git, Docker, AWS

## EXPERIENCE

### Data Science Researcher | UC Berkeley, Professor Brian DeLay | Aug 2026 - Present

- Built a data pipeline to reconcile more than a decade of historical records from three universities into a unified analytical tool.
- Cleaned, merged, and validated disparate sources using statistical methods to support consistent analysis across historical datasets.
- Expanded the research to include Japan by using Japanese language skills and AI-assisted parsing to extract and incorporate 200+ rows of historical arms trade data.
- Created Tableau visualizations of historical arms trade data for a guest lecture by Professor Brian DeLay.

### Corporate Safety Systems Intern | MTR Corporation, Hong Kong | Jun 2026 - Aug 2026

github.com/hinsonyuen/digital-hazard-planning-tracker

- Built and maintained CSQE Global Watch, an internal monitoring dashboard used by over 10,000 employees to explore data, track reliability metrics, and identify recurring anomalies.
- Developed and shipped the Digital Hazard Planning Tracker for the safety chief and senior managers, digitizing oversight of 200+ contractors across seven active railway projects and extensions totaling US\$18 billion.
- Built and maintained contractor safety databases to support hazard monitoring and safety oversight across construction and operations.

### Fintech Intern | Mariner CRM, London, UK | Jan 2026 - May 2026

- Used Python statistical modeling and SQL to audit client data supporting decisions involving £100M+ in client assets.
- Developed dashboards integrated into the product's current release.
- Developed an AI agent using n8n and Claude Code, incorporating controls to support compliance with UK and EU financial regulations.

## SELECTED PROJECTS

### AI HR Recruiter | Python, Pandas, Hugging Face, Neural Networks, Clustering

github.com/hinsonyuen/armarmhire

- Developed and evaluated a machine learning matching model for an AI-powered HR platform using Python, Hugging Face, neural networks, and clustering, achieving 95%+ matching accuracy through iterative experimentation.
- Cleaned, transformed, and mapped large-scale relational datasets with Python and Pandas; identified data quality issues and user behavior trends that informed product decisions.
- Led a cross-functional team from platform architecture through deployment, reviewing code, coordinating development, and deploying with Docker and Kubernetes.

### Microsoft Financial Model | Python, Excel, Financial Modeling

github.com/hinsonyuen/microsoft-financial-model

- Built a linked three-statement Excel model using FY2022-FY2026 actuals to forecast FY2027-FY2031, with capital, lease, debt, and share schedules, DCF valuation, and two-variable sensitivity analysis.
- Developed Python data acquisition and preparation scripts to structure financial statements and SEC data; documented source provenance and implemented 47 reconciliation checks.

## LANGUAGES

English, Cantonese, Mandarin: Fluent | Japanese, Spanish: Intermediate