

# Chenyang Wang

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## EDUCATION

### University of California - Berkeley

Master of Analytics | GPA: 4.00/4.00

Coursework: Database Design, Machine Learning & Data Analysis, Optimization, Supply Chain, Financial Engineering

Berkeley, CA

Aug. 2025

### University of Michigan - Ann Arbor

Bachelor of Science in Computer Science | GPA: 3.96/4.00

Coursework: Programming Languages, Data Structures & Algorithms, Computer Game Design, Software Development

Ann Arbor, MI

May 2024

## SPECIAL PROJECTS

### UC Berkeley Course Recommendation System

Jan. 2025 - Present

Role: Data Engineer & Machine Learning Developer

Instructor: Daniel Pirutinsky

- Scraped and processed UC Berkeley course catalog data from the university website using BeautifulSoup & Selenium.
- Conducted exploratory data analysis (EDA) using Matplotlib & Seaborn to identify key trends in course offerings.
- Developed a BERT-based NLP model to recommend courses based on user preferences and historical selections.
- Developed a hybrid recommendation model combining XGBoost and clustering algorithms to improve course matching accuracy.
- Building an end-to-end recommendation system integrating Flask for backend services and an interactive front-end dashboard.

### Database Design for Urban Root Garden

Sep. - Dec. 2024

Role: Team coordinator & Coder

Instructor: Phillip Kerger, Assistant Teaching Professor at UC Berkeley

- Designed an end-to-end database system for urban agriculture management.
- Created a relational schema optimizing data retrieval for urban farm tracking.
- Implemented MySQL (relational) and MongoDB (NoSQL) solutions for structured and unstructured data integration.
- Designed interactive SQL queries for inventory tracking and predictive analytics.

### Gold Price Prediction Machine Learning Project

Nov. - Dec. 2024

Role: Leader & Developer

Instructor: Ying Cui, Assistant Professor at UC Berkeley

- Led a team to build a time-series forecasting model for gold prices using historical financial data.
- Collected and cleaned 15+ datasets (price trends, economic indicators, forex rates) using ETL pipelines in Python (Pandas, NumPy).
- Developed feature engineering techniques to improve model performance and remove data inconsistencies.
- Trained Random Forest, LSTM, and Linear Regression models, achieving 99%  $R^2$  on validation data.
- Conducted bootstrap analysis to assess model performance across different economic conditions.

### Image Classification Model Based on ResNet18: From CIFAR10 to CIFAR100

Jul. - Aug. 2023

Role: Model developer & Presentation

Instructor: Gregory Kesden, Associate Professor at Carnegie Mellon University

- Analyzed performance of ResNet18 vs. AlexNet & GoogleNet for CIFAR100 image classification.
- Performed hyperparameter tuning (learning rate, kernel size, step size) to optimize accuracy to 80%.
- Visualized classification metrics with Matplotlib & TensorFlow.

## EXPERIENCE

### Capgemini, Shanghai - Project Manager Assistant Intern

Shanghai, China

Role: Product manager assistant

Jul. - Aug. 2021

- Beta tested an Electrical Vehicle Purchasing App.
- Created 30 pages user manual.
- Monitored employee task completion by analyzing Kanban cards and task logs.
- Assisted the project manager in tracking employee attendance and taking notes.
- Effectively coordinated and managed projects throughout the Agile development process.

## SKILLS & INTERESTS

**Skills:** Machine Learning, Data Visualization, Database Design, Data Analysis, Game Design, Computer Algorithm

**Tools:** Python, SQL, Tableau, C++, C#, HTML/CSS, Unity, Git

**Language:** Mandarin, English

**Interests:** Gaming, Saxophone, billiards, badminton