

# Amy Huang

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## EDUCATION

### COOP Careers – Data Analytics Fellowship

Expected Dec 2025

- Engaged in a 16-week fellowship program, gaining proficiency in Microsoft Excel, Tableau, and SQL
- 200+ hours of instruction time with a hands-on mastery of data tools, communication training, networking, and client work with actual companies

### University of California, Irvine – B.S. in Computer Science

Jun 2024

- Specialization in Intelligent Systems | CGPA: 3.864 / 4.000
- Relevant Coursework: Data Management, Beyond SQL Management, Discrete Mathematics for Computer Science, Design and Analysis of Algorithms, Principles in System Design

## SKILLS

**Analytics & BI:** SQL, Excel, Python, Power BI, Tableau, SAS, Databricks

**Programming & Dev:** JavaScript, Java, HTML/CSS, Git, Firebase, MongoDB, NoSQL Databases

## WORK EXPERIENCE

### Independent SQL Report Developer

May 2024 – Present

*Under the supervision of a Sr. Consultant, Population Management – Kaiser Permanente*

- Support healthcare reporting initiatives by designing and optimizing complex SQL queries for data extraction, transformation, and loading (ETL) across source systems
- Automate 10+ recurring reports and streamline data pipelines using SAS and SQL Developer, reducing turnaround times and improving reporting consistency
- Translate complex datasets for 250K+ members into clear, actionable Power BI and Excel visualizations, enabling executives and non-technical teams to make data-driven decisions during strategic planning
- Interpret HEDIS measure specifications and work with compliance teams to ensure accurate implementation in data workflows, maintaining regulatory adherence and data quality
- Recommend and present improvements to reporting architecture and data processes to enhance performance, maintain data integrity, and support long-term scalability

## TECHNICAL PROJECTS

### Multi-Agent GenAI Project | [github.com/wfigura/TCS-Synthetic-Data-Capstone-Project](https://github.com/wfigura/TCS-Synthetic-Data-Capstone-Project)

Jan 2024 – Jun 2024

*Capstone Project – UC Irvine in partnership with Tata Consultancy Services (TCS)*

- Developed a multi-agent framework where one model generated synthetic data and another evaluated for bias, enabling dynamic data correction and improved fairness
- Integrated multiple large language models (LLMs) (Mistral 7B, LLaMA 2, GPT-4, Claude 2) into the system and implemented logic for cross-model communication and bias mitigation
- Managed backend integration using MongoDB to support seamless data flow, model interaction, and performance monitoring across agents.

### Health20 | Tools: React Native, Firebase, Expo Go | [github.com/AmyLHuang/Health20](https://github.com/AmyLHuang/Health20)

Mar 2024 – Apr 2024

*Academic Project – UC Irvine*

- Built a mobile app that recommends personalized actions to improve sleep, hydration, and fitness
- Designed a Firebase backend for secure data storage and session tracking, supporting user analytics
- Integrated external APIs (OpenWeather, phone sensors) to deliver context-aware insights, increasing user engagement and relevance of health advice

## CERTIFICATIONS

**Google AI Essentials** (Coursera), 2025

**SAS Programming 1: Essentials** (SAS.com), 2025