

Amy Huang

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SUMMARY

Data Analyst with 5 years of experience in SQL (Oracle, SQL Server, Databricks), ETL optimization, and business intelligence (Power BI, SAS), including projects in the healthcare sector. Adept at integrating clinical, operational, and financial datasets to improve reporting accuracy, accelerate decision-making, and support compliance with industry regulations.

EDUCATION

University of California, Irvine – B.S. in Computer Science, Specialization in Intelligent Systems

Sep 2020 – Jun 2024 | CGPA: 3.9 / 4.0

Relevant Coursework: Data Management, Beyond SQL Management, Discrete Mathematics for Computer Science, Design and Analysis of Algorithms, Principles in System Design

SKILLS

SQL & Databases: Oracle · SQL Server · Databricks · Complex Joins · Window Functions · CTEs · Query Optimization

Analytics & BI: SAS · Power BI · Excel · NoSQL Databases

Programming & Dev: Python · JavaScript · Java · HTML/CSS · Git · Firebase · MongoDB · Figma

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**) from multiple source systems
- Automate recurring reports and streamline data pipelines using **SAS** and **SQL Developer**, reducing turnaround times and improving reporting consistency
- Translate complex datasets 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

Capstone Project – Generative AI (Team of 4) | Jan 2024 – Jun 2024

Tata Consultancy Services (TCS)

- Enhanced an open-source Chat UI from Hugging Face by building a **multi-agent framework** where one agent generated **synthetic data** and another evaluated its **bias**, enabling dynamic correction
- Integrated multiple **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.

TECHNICAL PROJECT

Health20 | Tools: React Native, Firebase, Expo Go | Mar 2024 – Apr 2024

- Built a mobile app that recommends personalized actions to improve sleep, hydration, and fitness
- Developed a Firebase backend for secure data storage and user session persistence
- Integrated phone sensors and OpenWeather API to provide context-aware advice and track user progress

CERTIFICATES

Applied Data Analytics & Job Readiness | Jobsbridge Pathway, 2025

SAS Programming 1: Essentials | SAS.com, 2025

Advanced Software Engineering | Codepath, 2022