# Kelly Ma

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# EDUCATION

#### University of California, Riverside

September 2023 - June 2027

B.S. in Computer Science

Riverside, California

Relevant Coursework: Data Structures & Algorithms, Discrete Structures, Software Architecture & Design

# EXPERIENCE

#### **Artificial Intelligence Fellow**

May 2025 - Present

Break Through Tech AI at Cornell Tech

Remote

- Developing a real-world ML solution for a partnering company through an AI Studio Project, including data pipeline development, model training, and stakeholder presentations.
- Boosted F1-score by 12–18% with ensemble and deep learning models on benchmark datasets.
- Built ML workflows with KNN, decision trees, and logistic regression; achieved 85% macro F1 on real-world data.
- Completed 8+ applied ML projects using CRISP-DM for data prep, feature engineering, training, and evaluation.

# Undergraduate Research Assistant

October 2024 - December 2024

University of California, Riverside (UCR)

Riverside, California

- Analyzed research on AI-generated code detection in CS education, identifying gaps and proposing new strategies.
- Applied NLP techniques and transformer models via HuggingFace for code and text classification.
- Collaborated weekly with faculty and Ph.D. mentors to refine methodology and interpret findings.
- Continuing AI/ML research through a funded research fellowship (REU) starting Fall 2025.

#### Web Developer

October 2023 - March 2024

Association for Computing Machinery at UCR

Riverside, California

- Constructed responsive websites for 2 student organizations using React.js, Next.js, and Tailwind CSS, improving access to club resources and events for 50+ members per org.
- Identified recurring production inconsistencies caused by hardcoded event data; implemented dynamic component generation, removed 250+ lines of redundant code, and initiated a broader cleanup across the codebase.
- Improved navigation and accessibility by integrating a Footer component with contact info and social links.
- Coordinated with 8–9 developers in weekly Agile scrums to prioritize features and enhance mobile responsiveness.

#### **Coding Instructor**

March 2025 - April 2025

Whizara

Riverside, California

- Led week-long Scratch programming camp for 15 sixth graders, teaching foundational coding concepts.
- Mentored all students on building an Asteroid Game using event blocks, variables, and control structures.
- $\bullet$  Increased student engagement through live demos and 1:1 debugging support; 100% project completion rate.

#### Projects

#### Cave Adventure RPG

github.com/kellyma626/rpg-cave-game

 $C++,\ Git Hub,\ Git Hub\ Actions,\ GDB,\ Valgrind,\ Google Test$ 

October 2024 - December 2024

- Created abstract Item, Potion, and Weapon classes to support item behavior in a game for a team course project.
- Engineered a vector-based inventory system with dynamic memory management and polymorphism.
- Ensured code quality via 20+ unit tests with GoogleTest, CI using GitHub Actions, and debugging/profiling tools.

#### BearCare

devpost.com/software/bearcare

React.js, Next.js, Tailwind CSS, GitHub

April 2022

- Built frontend UI for a hospital-locator app, enabling users to filter by insurance provider in emergency scenarios.
- Designed insurance plan filter buttons for quick user selection; shipped MVP in a 24-hour team hackathon.

#### TECHNICAL SKILLS

Languages: Python, C++, JavaScript, HTML/CSS

Frameworks: React.js, Next.js, Tailwind CSS

Libraries: NumPy, Pandas, scikit-learn, Matplotlib, Seaborn, HuggingFace, PyTorch

Tools: GitHub, GitHub Actions, GDB, Valgrind, GoogleTest