

# Kelly Ma

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## EDUCATION

### University of California, Riverside

Bachelor of Science in Computer Science

September 2023 - June 2027

Riverside, California

Relevant Coursework: Data Structures & Algorithms, Software Design, Linear Algebra, Probability, Statistics

## TECHNICAL SKILLS

**Languages:** Python, C++, TypeScript/JavaScript, HTML/CSS, SQL

**Frameworks:** React, React Native, Next.js, Node.js, Expo, Tailwind/NativeWind

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

**Tools:** Git, GitHub, GitHub Actions, Supabase, PostgreSQL, AWS, Figma

## EXPERIENCE

### Machine Learning Fellow

August 2025 - Present

Fitch Group, Inc.

Remote

- Built ML models (Logistic Regression, Random Forests, XGBoost) on accounting time-series data from 8,000+ U.S. companies (1999–2018) for corporate bankruptcy prediction, supporting Fitch in credit risk assessment.
- Performed feature engineering and handled class imbalance, optimizing AUC-ROC, F1, and Type II error metrics.
- Collaborated weekly with teammates and Fitch stakeholders to translate findings into actionable insights.

### NASA L'SPACE Lead Engineer

August 2025 - Present

National Aeronautics and Space Administration (NASA)

Remote

- Researched AI and control methods (PID, MPC-lite, reinforcement learning) for adaptive moisture and nutrient management in microgravity plant systems, informing a competitive \$10K NASA seed funding proposal.
- Authored proposal content with 5 subject matter experts to evaluate feasibility and align with NASA priorities.

### Artificial Intelligence Fellow

May 2025 - Present

Break Through Tech AI at Cornell Tech

Remote

- Selected from 4,000+ applicants for a year-long AI fellowship applying CRISP-DM to real-world ML projects.
- Developed foundational AI/ML skills through hands-on projects with neural networks, sentiment analysis, and industry tools, earning Machine Learning Foundations certification from Cornell University.

### Undergraduate Research Assistant

October 2024 - Present

University of California, Riverside (UCR)

Riverside, California

- Implemented models (Random Forests, SVM, XGBoost, MLP, Ensemble Voter) to classify 3,360 samples of student vs AI-generated code using TF-IDF and CodeBERT embeddings, supporting integrity in early CS education.
- Collaborated weekly with faculty and Ph.D. mentors to refine experimental methodology and interpret findings.

### Web Developer

October 2023 - March 2024

Association for Computing Machinery at UCR

Riverside, California

- Built responsive websites using React, Next.js, and Tailwind, improving event access for 100+ club members.
- Identified recurring production inconsistencies from hardcoded event data; developed reusable components to automate rendering, removed 250+ lines of redundant code, and initiated a broader cleanup across the codebase.
- Coordinated with 9 developers in weekly Agile scrums to prioritize features and enhance mobile responsiveness.

## PROJECTS

### Cutie Mood - Mobile Mental Health App

[github.com/kellyma626/cutieMood](https://github.com/kellyma626/cutieMood)

React Native, Expo, TypeScript, Native Wind, Supabase, GitHub, Figma

July 2025 - August 2025

- Led project vision and technical execution, architecting features including mood tracking, journaling, and chatbot.
- Implemented Supabase flows for async mood entry creation and retrieval, managing 120+ entries seamlessly.
- Designed all 5 screens, creating a cohesive, playful mobile UI with custom mood-to-image/color mappings.

### Cave Adventure - Terminal-Based C++ Game

[github.com/kellyma626/rpg-cave-game](https://github.com/kellyma626/rpg-cave-game)

C++, GitHub, GitHub Actions, GoogleTest

October 2024 - December 2024

- Engineered abstract Item classes and a vector-based inventory with polymorphism and dynamic memory.
- Ensured code quality via 20+ unit tests with GoogleTest, CI using GitHub Actions, and debugging/profiling tools.