

Kevin Cui

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EDUCATION

San Jose State University

Aug 2023 – Dec 2025

Bachelor of Science, Data Science

San Jose, CA

- Relevant Coursework: Data Structures and Algorithms, Advanced Python Programming, Data Visualization, Database Management Systems, R Programming, Machine Learning, Artificial Intelligence, Information Security, Probability and Statistics I & II
- Associations: Mathematics, Engineering, Science, Achievement (MESA), Stanford Science Groups (SSG), International Society of Pharmaceutical Engineers (ISPE), Society of Asian Scientists and Engineers (SASE)

EXPERIENCE

Full-Stack Software Engineering Intern

May – Aug 2025

VTN Manufacturing, Inc.

San Jose, CA

- Designed and developed full-stack performance analytics dashboard from ground up for CNC machining using **React**, **Node.js**, **Express**, and **PostgreSQL** to track runtime, downtime, defects, and performance from machine generated JSON files
- Built scalable data ingestion pipelines to process and migrate 5+ years of CNC logs into structured PostgreSQL records
- Reduced data inconsistency using the data ingestion pipeline, improving reporting accuracy and reducing revenue leaks by ~10%
- Decreased data reporting time by approximately 6 hours per week and improved visibility through real-time dashboard insights

PROJECTS

AdLabs | adlabs-ai.com

Apr - May 2026

- Placed as a finalist at a GTM Hackathon creating an AI marketing platform for discovering short-form trends, turning them into on-brand scripts, with user-prompted AI-generated videos/images, and usage/cost analytics
- Rebuilt from the ground up, an **Apify**-based scraping pipeline across various social media platforms with **Drizzle**-cached **Supabase** trending feeds and per-user daily/monthly quotas, cutting API spend by ~90% and load times to < 100 ms
- Architected multi-provider AI rendering pipeline, **Vercel** Blob artifact persistence, **Redis** rate-limiting, **PostHog** data analytics, **Sentry** error reporting, and **BetterStack** uptime monitoring for essential website upkeep and data tracking
- Engineered **Gemini** File API + context-caching layer (~48 h TTL) reducing per-turn input token cost by ~75%, with **Stripe** webhooks for subscription + top-up credits and an admin dashboard aggregating LLM, render, and scraper spend

Tutor Me | tutor-me-tau.vercel.app

Apr 2026

- Shipped a browser-based social AI-powered classroom where learners move in a 3D space with others, talk to persona-based tutors that can be shared or duplicated, and participants can join the same live room using a room code
- Developed **React** + **Next.js** web app with **Three.js** for 3D interactions, and **VAPI** and **ElevenLabs** for the voice integration
- Built AI agent workflows using reinforcement learning from user interactions with **Redis** for memory, caching, and latency

Next Boba | nextboba.vercel.app

Jan – Mar 2026

- Developed a full-stack application using **Next.js**, **React**, and **Tailwind** with a **FastAPI** backend connected to **Supabase**
- Fine-tuned sentiment analysis models on 6M+ Yelp reviews to classify customer review polarity and improve recommendation
- Designed optimized **PostgreSQL** schemas with indexing and sentiment metadata, reducing query response times < 200 ms

Pokemon Moveset Predictor | pokemon-recommendation.vercel.app

Jan – May 2025

- Collaborated in a 2-person team to develop a **Dash** web app built on **Flask** and **React** deployed on **Google Cloud**
- Developed **Python** ETL pipelines to scrape, clean, and process 100+ competitive Pokémon datasets for model training/analysis
- Engineered analysis pipeline to improve prediction performance and deployed visualization to show possible outcomes and trends
- Developed a Random Forest model trained on large-scale datasets (10+ years of data) to recommend moves with ~70% accuracy

TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript, SQL, Java, R, HTML, CSS, Bash

Frameworks/Libraries: React, Next.js, Node.js, Express, FastAPI, Flask, TensorFlow, PyTorch, Scikit-learn, Tailwind

Database: PostgreSQL, MySQL, Supabase

Tools/Platforms: AWS, Docker, Git, Vercel, Railway, Render, Clerk, Vite, Google Cloud