

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, Machine Learning, Artificial Intelligence, Database Management Systems, Data Visualization, Information Security, Probability and Statistics I & II

EXPERIENCE

Founding Engineer

Apr 2026 – Present

JanusLabs | januslabs.dev

San Jose, CA

- Built a full-stack AI marketing platform on **Next.js**, **TypeScript**, and **PostgreSQL** that discovers trending short-form videos across **TikTok**, **YouTube Shorts**, and **Instagram Reels** and generates ad scripts, images, and videos
- Cut external API costs by about 90% and feed load times to under 100 ms with a server-side caching layer, per-user daily and monthly usage quotas, regional filtering, and credit-priced live refreshes over a multi-platform scraping pipeline
- Designed an AI image and video rendering pipeline across multiple model providers, with automatic credit refunds on failure and a reusable library of characters, scenes, and personas users remix across projects and production stages
- Reduced LLM input costs by about 75% via cross-turn prompt and file caching; built a **Stripe**-backed credit billing system with subscriptions, top-ups, automatic refunds on failure, and an admin dashboard tracking AI, rendering, and scraping spend

Full-Stack Software Engineering Intern

May – Aug 2025

VTN Manufacturing, Inc.

San Jose, CA

- Designed and developed a CNC machining performance analytics dashboard as a **React** single-page application backed by **Node.js**, **Express**, and **PostgreSQL**, tracking runtime, downtime, defects, and performance from machine JSON logs
- Owned the product end to end, from the React component architecture and Express REST API through ingestion pipelines that migrated 5+ years of CNC logs into structured PostgreSQL records and into daily use by plant operators and managers
- Reduced data inconsistency through the ingestion pipeline, improving reporting accuracy and cutting revenue leaks by 10%
- Decreased data reporting time by approximately 6 hours per week and improved visibility through real-time dashboard insights

PROJECTS

Proofloop | proofloop-alpha.vercel.app

Jul 2026

- Built a **Python** CLI correctness gate for AI-written code that intercepts deploy commands and blocks broken deploys with file:line evidence, deciding pass/fail via deterministic checks for missing env vars, untested worktrees, and pending migrations
- Integrated **Claude Code**, **Cursor**, and **Codex** agent hooks returning structured deny payloads agents consume to fix the failure and re-deploy unprompted; added an advisory LLM judge across **Anthropic**, **OpenAI**, and **OpenRouter**
- Shipped with 360 automated tests, an end-to-end acceptance demo, and a statically exported **Next.js** landing page on **Vercel**

Parallax | parallax-tawny-xi.vercel.app

Jun 2026

- Built an AI agent that turns a product photo into an interactive exploded-parts 3D diagram on **Next.js**, **FastAPI**, and **Three.js**, where users ask questions and the agent drives the model by emitting validated JSON actions
- Routed all inference through **GMI Cloud**, wiring a Gemini 3.5 Flash agent brain with structured JSON output and image and video generation for the exploded view behind an async job queue with progress polling and automatic retries on failure
- Engineered a from-scratch Three.js viewer with raycast part selection, opacity-based isolation, and explode math, added **Web Speech API** voice queries, and deployed the stack across **Vercel** and **Docker** on **Render** with CORS for preview deploys

TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript (ES6+), SQL, Java, R, HTML, CSS, Bash

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

Database: PostgreSQL, MySQL, Supabase, Redis

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