

# Cody Jung

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## EDUCATION

**University of California, Berkeley | Haas School of Business**

**GPA: 3.96**

*B.A. Computer Science | B.S. Business Administration*

*Coursework: Data Structures, Computer Programs, Linear Algebra, Differential Equations, Multivariable Calculus*

*Honors: Dean's List, National Merit Scholar*

## EXPERIENCE

**Matrix Power**

**Milpitas, CA**

*AI Research Intern – Agent Systems*

*June 2026 – Present*

- Built and deployed an always-on AI sales system as sole engineer for B2B prospecting and market intelligence
- Architected a sandboxed OpenClaw agent and FastAPI gateway enforcing approval for CRM and email actions
- Hardened event-driven agent workflows with task leases, retries, spend limits, pause controls, and audit logs

**AfterQuery (YC W25)**

**Berkeley, CA**

*Generative AI Engineer – Financial Reasoning (Contract)*

*December 2025 – March 2026*

- Built LLM evaluation pipeline in LangChain running ~35 financial reasoning benchmarks per model checkpoint
- Designed scoring framework in pandas classifying model failures across reasoning, calculation, and retrieval
- Surfaced error patterns from pipeline runs, redirecting data collection toward 8 underperforming task categories

**Haas Business Student Association**

**Berkeley, CA**

*Director of Technology*

*September 2025 – Present*

- Lead 6-person technology committee shipping React/Next.js features across HBSA's platforms for 6,000+ users
- Built pgvector-backed semantic search and filtering for BerkeleyGoggles, a directory of 500+ student orgs
- Co-organized 2 Anthropic-sponsored hackathons (500+ students) with their campus ambassador program

**Mastercard**

**Berkeley, CA**

*Technology Consultant (Contract via Business Careers in Entertainment Club)*

*February 2026 – May 2026*

- Researched Gen Z credit card behavior via industry reports, market data, and competitor product analysis
- Built persona segmentation model on 990 survey responses using MCA + K-means, benchmarked against GMM
- Delivered three Next.js prototypes for personalized, gamified rewards features to Mastercard product managers

**Kinjo Insurance & Financial Services**

**Anaheim, CA**

*Software Engineering & Finance Intern*

*December 2024 – July 2025*

- Built Python ETL pipeline unifying 3 custodian export formats, cutting report prep ~40% across 75+ portfolios
- Developed LangChain pipeline for daily U.S. and Japanese news, translating and mapping events to holdings

## PROJECTS & OPEN SOURCE

**Open Source Contributions | [Ponytail](#) (106K+ stars) & [PixelRAG](#) (9K+ stars)**

- Merged POSIX process-group cleanup into Ponytail's agent benchmarks, stopping timed-out process trees
- Merged auto/MPS CLI overrides into PixelRAG's visual index builder with pytest coverage for Apple Silicon

**Government Workflows | [Python](#), [FastAPI](#), [React](#), [TypeScript](#), [SQLite](#)**

**[GitHub](#)**

- Identified untracked AI public records risk and built an auditable platform for West Covina finance department
- Designed a fail-closed AI pipeline with deterministic finance logic, source-linked LLM drafts, and audit logs
- Shipped 8 finance workflows and natural-language Tyler/Munis export search cutting ERP lookup time 70%

**College Explorer | [Next.js](#), [FastAPI](#), [PostgreSQL](#), [pgvector](#), [Redis](#), [AWS](#)**

**[GitHub](#)**

- Co-founded a full-stack college application assistant on AWS with a 3-person team, serving 7,600 unique users
- Designed a versioned ranker across six student-fit dimensions with confidence scores and explainable tradeoffs
- Built student workflows from onboarding and search through cost comparison and print-ready decision reports

**AI Backtest Lab | [Python](#), [FastAPI](#), [Next.js](#), [LangGraph](#), [Pydantic](#)**

**[GitHub](#)**

- Engineered event-driven engine with portfolio accounting, transaction costs, and tests against look-ahead bias
- Developed FastAPI + Next.js platform for grid search, walk-forward validation, and from-scratch risk analytics
- Built LangGraph copilot compiling LLM drafts into Pydantic-validated specs with approval-gated execution

## TECHNICAL SKILLS

**Languages:** Python, Java, JavaScript, TypeScript, SQL, R

**Frameworks & Libraries:** React, Next.js, Pydantic, FastAPI, LangChain, scikit-learn, pandas, NumPy, pytest

**Infrastructure & Tools:** PostgreSQL, pgvector, Redis, AWS, Docker, Git, GitHub Actions