HENRY WANG

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Education

University of California, Riverside

Bachelor of Science in Computer Science

June 2028 GPA: 3.94/4.0

Relevant Coursework: Data Structures & Algorithms, Discrete Mathematics, Multivariable Calculus, Linear Algebra, Statistics **Additional Activities:** Projects VP and Developer, <u>ACM@UCR</u> • fMRI Research Assistant, <u>Ballard Lab</u> • Chancellor's Honors List

Experience

Data Structures and Algorithms Grader

University of California, Riverside

Oct 2025 – Present Riverside, CA

Evaluated and provided feedback on C++ data structures and algorithms assignments and assessments for 130+ students.

Founding Backend Intern

Jun 2025 - Sep 2025

twocents.money (\$3M pre-seed, joined pre-funding)

San Francisco, CA

- Implemented automated content moderation for 4500+ users and optimized APN token handling for push notifications.
- Added Plaid debt-endpoint support to incorporate liabilities into net-worth tracking across \$200M+ in linked assets.
- Built CI/CD pipeline with an auto-updating documentation workflow via Claude Code on GitHub Actions for AWS Lambda.

Chief Technology Officer

Feb 2025 - Jun 2025

BearBytes.fyi

Riverside, CA

- Developed a student-run dorm delivery platform serving **300+ customers** at UCR, backed by a \$10K angel investment.
- Engineered the Node.js backend with order validation, driver dispatch, and a Zelle-based payment verification system.

Projects

<u>DonkeySpotter</u> | Swift, Node.js, Express.js, Firebase (Realtime Database, Firestore)

- Developed an iOS app using Swift that displays a real-time map of donkeys at UCR based on user-submitted reports.
- Built a Node.js backend, utilizing Firebase for geolocation updates, push notifications (APNs), and community features.
- Supports **250+ active users**, **500+ sightings**, with **100+ Discord community members** and an <u>AI mascot</u> for engagement, garnered **50,000+ views** on the Reddit launch post, and <u>front page</u> in *The Highlander*, UCR's student newspaper.

LocalBrain (Cal Hacks 12.0) | FastAPI, Claude, Next.js, Electron, MCP, OAuth

- Built a personalization layer for AI apps, that unifies data sources (Gmail, iMessage, etc.) into organized markdown notes.
- Built a self-correcting ingestion pipeline with Levenshtein fuzzy matching and feedback loops, achieving 95% accuracy.
- Achieved 95% accuracy on LongMemEval retrieval benchmark via ripgrep + tool-calling, with >2s search across 10K+ files.

Chiron | Next.js, OAuth, PostgreSQL (pgvector), Gemini Embeddings, FastAPI, AWS S3

- Developed a platform enabling users to chat with realistic AI versions of notable people using a custom retrieval system.
- Implemented multi-query retrieval with Reciprocal Rank Fusion, dynamic participant routing, and citation-level context.
- Built a Python pipeline ingesting 1,500+ documents (YouTube, RSS, blogs) into normalized Markdown and embeddings.

Notes.Henr.ee | Next.js, Tailwind, OAuth, MongoDB

- Created an <u>open-source</u> markdown pastebin using Next.js and TypeScript with **client-side AES-256 encryption** for zero-knowledge storage and a lightweight architecture (5 KB median file size), hosting **1,000+ pastes** with MongoDB Atlas.
- Implemented an admin dashboard with OAuth authentication, supporting data visualization and content management.

Skills

Programming Languages: C++, Python, TypeScript, JavaScript, Java, Swift, Bash, HTML/CSS

Frameworks & Libraries: Next.js, React, Node.js, FastAPI, Flask, Express.js, Firebase, Tailwind, OpenCV, MongoDB, Postgres **Tools:** AWS Lambda, AWS S3, AWS EC2, Cloudflare Workers, GitHub Actions, Vercel, Discord.js, Google Cloud, Docker **Concepts:** Frontend, Backend, System Design, REST APIs, Context Engineering (LLMs), Software Engineering, Neuroscience