HENRY WANG

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Education

University of California, Riverside   *June 2028*
Bachelor of Science in Computer Science   **GPA:** 3.94/4.0
Relevant Coursework: Data Structures & Algorithms, Discrete Mathematics, Multivariable Calculus, Linear Algebra, Statistics
Additional Activities: Research Assistant, Ballard Lab (Computational Cognition & Neuroscience) · Projects VP, ACM@UCR

Experience

Software Engineering Intern   *Dec 2025 – Present*
SixtyFour AI (YC X25)   *Riverside, CA*
- Founding full-stack intern developing workflow infrastructure for AI go-to-market research agents (DAGs, state machines) and the execution backend (scheduling, retries, idempotency) using Next.js, FastAPI, Celery, Redis, and AWS.

Data Structures and Algorithms TA   *Oct 2025 – Present*
University of California, Riverside   *Riverside, CA*
- Evaluated and provided feedback on C++ data structures and algorithms assignments and assessments for **130+ students**.
- Led office hours to resolve DSA and debugging questions (graphs, trees, deques) and unblock assignment progress.

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

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, **searching 10K+ files in <2s**.

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 open-source 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