

# Michael Chen

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## Education

### University of California, Riverside (UCR)

*Bachelor of Science in Computer Science (Minor: Entrepreneurship and Strategy)*

Riverside, CA

*Expected June 2026*

- GPA: 3.64/4.0, Dean's Honor List
- Relevant Coursework: Data Structures and Algorithms, Artificial Intelligence, Software Engineering, Software Construction, Database Management, Operating Systems, Data Analysis, Linear Algebra, Computer Architecture, Assembly, Logic Design

## Awards

### University Program Award, AMD Pervasive AI Competition

September 2024

### Sustainability Award, Cutie Hack 2022

November 2022

## Experience

### AI SWE Engineer

October 2025 - Present

*Epoch*

*Remote*

- Engineered Zerg and ZTC, an autonomous coding-agent platform and Claude Code-style terminal with parallel tool dispatch, background sub-agents, worktree-isolated batch execution, provider routing, and live web-mirror observability
- Architected continual-validation and embedded evaluation harnesses as a Forward Deployed Engineer for an aerospace customer, scoring outputs against deterministic state, tool, artifact, browser, and visual oracles
- Orchestrated multi-agent simulation infrastructure for enterprise decision scenarios, extracting domain plugins, hardening HTTP/SSE runtime surfaces, and modeling tool, meeting, event, and lifecycle workflows for long-running agents

### Software Engineer

June 2023 - Present

*MOBIVOLT LLC*

*Livermore, CA*

- Developed 10+ automated test systems for \$5M+ DOD-funded fuel cell program using C#/NET, integrating 250+ sensors with zero downtime across 5,000+ hours of testing and reducing data logging time by 99%
- Constructed Python/PyQt hardware-in-the-loop simulator for Tardigrade fuel-cell systems with serial firmware bridge, 100ms sensor injection, 200ms polling, and plant models for stack, battery, pressure, water, actuator, and thermal behavior
- Ported PIC32MZ Puma/Tardigrade firmware into a Harmony V3 target, migrating 50+ app and driver modules for process logic, load-following, current limiting, ASCII protocol, persistence, UI scheduling, and sensor I/O with 2,500+ lines of C tests

### Founder/President

October 2023 - September 2025

*Artificial Intelligence (AI) at UCR (AIR)*

*Riverside, CA*

- Established UCR's first official AI organization, scaling membership from 0 to 50+ active members within 6 months and achieving 45% workshop attendance growth through strategic recruitment and expert guest lectures
- Delivered 10+ technical workshops on AI/ML implementation and emerging technologies for cross-functional teams, establishing UCR's AI community network and collaborative development culture
- Produced reusable workshop curriculum, GitHub learning materials, speaker programming, and onboarding infrastructure that helped technical and non-technical students contribute to applied AI projects

## Projects

### PHiLIP: Personalized Human in Loop Image Production

November 2023 - July 2024

- Won [AMD University Program Award](#) (\$2,500) among 8,200+ participants at AMD Pervasive AI Developer Contest; presented live demo at AMD Advancing AI Event 2024, San Francisco
- Designed human-in-loop image generation platform achieving 2-second inference with 71 style presets, Stable Diffusion upscaling, and iterative refinement using PyTorch, HuggingFace, and fine-tuned PixArt-alpha on AMD ROCm

## Technical Skills

**AI/ML:** LLMs, AI Agents, Tool Use, RAG, MCP, Prompt Engineering, LLM Evaluation, SWE-bench, Multi-Agent Simulation, LangChain, LangGraph, PyTorch, HuggingFace, TensorFlow, Scikit-Learn, Vector Embeddings

**Languages:** Python, TypeScript, JavaScript, C++, C, Java, C#, Go, Rust, SQL, Bash

**Backend:** Node.js, Express.js, FastAPI, Django, Flask, RESTful APIs, GraphQL, WebSockets, Server-Sent Events, Socket.IO

**Frontend:** React.js, Next.js, Tailwind CSS, shadcn/ui, Vite, Server-Side Rendering

**Databases:** PostgreSQL, Supabase, Redis, MongoDB, Pinecone, pgvector

**Cloud/DevOps:** Docker, Kubernetes, k3d, AWS, GCP, Azure, Vercel, Modal, Fly.io, GitHub Actions, CI/CD Pipelines, Git

**Certifications:** [Unsupervised Learning](#), [Recommenders](#), [Reinforcement Learning](#), [Supervised Machine Learning](#), [Advanced Learning Algorithms](#)