

Michael Huang

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SUMMARY

CS engineer focused on applied AI/ML — from prompt optimization and multi-agent orchestration to containerized ML deployments. Built production-grade AI systems as a contract engineer (MCP server, Gemini integration, 157-test codebase), deployed multi-agent pipelines to k3s, and won 2nd place at two hackathons building real-time LLM-powered applications.

EDUCATION

California Polytechnic State University - San Luis Obispo <i>Bachelor of Science in Computer Science, Minor in Philosophy; Graduated: August 2025</i>	San Luis Obispo, CA
• Relevant Coursework: Data Structures & Algorithms, Computer Architecture, Operating Systems, Systems Programming, Database Systems, Deep Learning	

PROFESSIONAL EXPERIENCE

Dynamic Experts <i>Contract AI Engineer</i>	December 2025 – January 2026
• Architected a production-grade MCP (Model Context Protocol) server to expose deep-research capabilities, integrating Gemini 2.5 Pro with markdown sanitization and automated citation handling	
Solidigm (Formerly Intel NAND)	June 2022 – August 2023
<i>Automation and Product Engineering Intern</i>	
Automation and Product Engineering Intern	Folsom, CA
• Migrated legacy Python 2.7 automation frameworks to Python 3.x, modernizing the codebase for 600+ production-line tests and significantly reducing false-positive failures	
• Engineered end-to-end automation scripts that increased test coverage, saving the engineering team approximately 8 hours of manual verification per SKU during testing cycles	
• Performed root cause analysis on non-product failures, implementing patch fixes that improved overall testing stability and reduced infrastructure downtime	

HACKATHON

Hackathon Wins <i>Gemini, Azure Speech, ElevenLabs, TypeScript</i>	Jan 2026
• Won 2nd place at two hackathons, building a real-time election misinformation detector (Before the Ballot) and a live speech fact-checker (Claude Code Hack Day @ AWS, out of 25 teams)	
• Upgraded static LLM validation to live search grounding with Gemini, enabling real-time source retrieval and contradiction flagging	
• Engineered a JSON Schema validation layer using Gemini to ensure deterministic, error-free outputs from non-deterministic LLMs	
• Led orchestration of four microservices and shipped fully integrated, crash-resistant MVPs under tight sprint deadlines	

PROJECTS

Axion Prompt Learning Module <i>Python, Pydantic, AsyncIO</i>	January 2026 – Present
• Built a prompt optimization module that iteratively improves system prompts via an evaluate-analyze-optimize loop using structured English-language feedback	
• Implemented beam search with candidate generation, auto-revert on regressions, and hard negative sampling for failure analysis	
SAR Multi-Agent Deployment Pipeline <i>Docker, k3s, Redis Streams, Python</i>	January 2026 – Present
• Containerized a 7-agent AI search-and-rescue system, building optimized Docker images and deploying to a k3s cluster	
• Configured in-cluster Redis and networking for local orchestration agents, preserving the existing Redis Streams protocol	

TECHNICAL SKILLS

Languages: Python, C/C++, Java, JavaScript (ES6+), TypeScript, SQL
AI/ML: PyTorch, Gemini API, Azure Speech SDK, Sklearn, Jupyter Notebook, LLMs, Generative AI
Web Development: Node.js, Express, React.js, MongoDB
Tools & Infrastructure: Git, Linux, POSIX, Docker, k3s/Kubernetes, Redis, MCP, Firecrawl API, Vitest, Confluence, Jira