

Michael Huang

Oakland, CA | (415) 505-8933 | michael.micah.huang@gmail.com | www.linkedin.com/in/michael-micah-huang

EDUCATION

California Polytechnic State University - San Luis Obispo <i>Bachelor of Science in Computer Science, Minor in Philosophy; Graduation: August 2025</i>	San Luis Obispo, CA GPA: 3.40
• 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
• Delivered a fully documented, production-ready codebase with 157 unit tests (Vitest), ensuring seamless handoff to the client engineering team	<i>Remote</i>
• 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	
• Optimized async polling architecture with 90-minute timeout handling to support long-running inference tasks (60+ minutes), solving critical timeout issues in standard HTTP request flows	
Solidigm (Formerly Intel NAND) <i>Automation and Product Engineering Intern</i>	June 2022 – August 2023
• 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	<i>Folsom, CA</i>
• 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

SkepticScript – Claude Code Hack Day <i>Azure Speech, Gemini, TypeScript</i>	Jan 2026
• Won 2nd place (Silver Medalist) out of 25 teams at Claude Code Hack Day @ AWS with Jam.dev	
• Architected a real-time speech verification engine that cross-references live audio against LLM knowledge bases	
• Engineered a JSON Schema validation layer using Gemini to ensure deterministic, error-free outputs from non-deterministic LLMs, solving structural hallucination issues	
• Led orchestration of four microservices (Azure Speech, Gemini, Backend, Frontend) and shipped a fully integrated, crash-resistant MVP in a 9-hour sprint	

PROJECTS

Custom Linux Shell & System Programming <i>C, POSIX</i>	
• Implemented a custom Linux shell supporting pipes and process management to mirror core Unix behavior	
• Built a text-based client-server messaging tool between two Linux machines using sockets	
• Developed a tape archiver and Huffman encoder/decoder to explore low-level compression techniques	
Huffman-Encoding/Decoding <i>C, Linux</i>	
• Implemented Huffman Encoding and Decoding in C to compress and decompress text files. Built frequency tables, constructed Huffman trees, and generated encoded binary output	
• Included functionality to decode binary files back into original text format and compare file sizes before and after compression, achieving typical compression ratios of 40-60%	

TECHNICAL SKILLS

Languages: Python, C/C++, Java, JavaScript (ES6+), TypeScript, SQL
Backend & APIs: Node.js, Express, RESTful APIs, MongoDB, Microservices, MCP
Systems: Linux, POSIX, System Programming, Sockets, Process Management
AI/ML: PyTorch, Gemini API, Azure Speech SDK, Sklearn
Tools: Git, Vitest, Firecrawl API, Confluence, Jira