

Michael Huang

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EDUCATION

California Polytechnic State University - San Luis Obispo San Luis Obispo, CA
Bachelor of Science in Computer Science, Minor in Philosophy; Graduation: August 2025 GPA: 3.40

- **Relevant Coursework:** Data Structures & Algorithms, Computer Architecture, Operating Systems, Systems Programming, Database Systems, Deep Learning

PROFESSIONAL EXPERIENCE

Dynamic Experts December 2025 – January 2026
Contract AI Engineer Remote

- Delivered a fully documented, production-ready codebase with **157 unit tests** (Vitest), ensuring seamless handoff to the client engineering team
- 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) June 2022 – August 2023
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

SkepticScript – Claude Code Hack Day | *Azure Speech, Gemini, TypeScript* 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 | *C, POSIX*

- 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 | *C, Linux*

- 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