

Michael Huang

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SUMMARY

New grad backend engineer with production experience in API design, systems programming, and AI integration. Built a production-grade MCP server with async polling architecture and 157 unit tests as a contract engineer. Strong foundation in C, POSIX, and Linux systems from coursework and personal projects.

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 Remote
• 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) <i>Automation and Product Engineering Intern</i>	June 2022 – August 2023 Folsom, CA
• Delivered a fully documented, production-ready codebase with 157 unit tests (Vitest), ensuring seamless handoff to the client engineering team	
• 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	
• 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

Custom Linux Shell & System Programming <i>C, POSIX</i>	
• Implemented a custom Linux shell supporting pipes and process management to mirror core Unix behavior	
Huffman-Encoding/Decoding <i>C, Linux</i>	
• 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	
• 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