

# 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

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

## PROFESSIONAL EXPERIENCE

<b>Dynamic Experts</b> <i>Contract AI Engineer</i>	December 2025 – January 2026 Remote
• Delivered a fully documented, production-ready codebase with <b>157 unit tests</b> (Vitest), ensuring seamless handoff to the client engineering team	
<b>Solidigm (Formerly Intel NAND)</b> <i>Automation and Product Engineering Intern</i>	June 2022 – August 2023 Folsom, CA
• Migrated legacy Python 2.7 automation frameworks to Python 3.x, modernizing the codebase for <b>600+ production-line tests</b> and significantly reducing false-positive failures	
• Engineered end-to-end automation scripts that increased test coverage, saving the engineering team approximately <b>8 hours of manual verification per SKU</b> during testing cycles	
• Performed root cause analysis on non-product failures, implementing patch fixes that improved overall testing stability and reduced infrastructure downtime	

## HACKATHON

<b>Hackathon Wins</b>   <i>Gemini, Azure Speech, ElevenLabs, TypeScript</i>	Jan 2026
• Won <b>2nd place</b> at <b>two</b> hackathons, building a real-time election misinformation detector (Before the Ballot) and a live speech fact-checker (Claude Code Hack Day @ AWS, out of <b>25 teams</b> )	
• Upgraded static LLM validation to <b>live search grounding</b> 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 <b>four microservices</b> and shipped fully integrated, crash-resistant MVPs under tight sprint deadlines	

## PROJECTS

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

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