Michael Huang

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SUMMARY

New grad full-stack engineer with production experience across the MERN stack and AI-powered backends. Shipped a production-grade MCP server with 157 unit tests as a contract AI engineer, and won 2nd place at two hackathons building real-time applications with microservice architectures.

EDUCATION

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

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

Hackathon Wins | *Gemini, Azure Speech, ElevenLabs, TypeScript* 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

Personal Finance Dashboard (MERN) | *MongoDB, Express, React.js, Node.js, JavaScript, TypeScript*
- Implemented secure user authentication and RESTful APIs to manage user accounts and transaction data reliably
- Designed a responsive dashboard with visual spend breakdowns and filters so users can quickly identify patterns and adjust decisions

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

TECHNICAL SKILLS

Languages: JavaScript (ES6+), TypeScript, Python, C/C++, Java, SQL
Frontend: React.js, HTML5, CSS3, Responsive Design
Backend: Node.js, Express, MongoDB, RESTful APIs, Authentication
AI/ML: PyTorch, Gemini API, Azure Speech SDK, Sklearn
Tools: Git, Linux, Vitest, MCP, Confluence, Jira