

Michael Huang

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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 Remote
• Delivered a fully documented, production-ready codebase with 157 unit tests (Vitest), ensuring seamless handoff to the client engineering team	
Solidigm (Formerly Intel NAND) <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 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 <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

Personal Finance Dashboard (MERN) <i>MongoDB, Express, React.js, Node.js, JavaScript, TypeScript</i>	
• Built a full-stack budgeting application with real-time transaction syncing and automated expense categorization using the MERN stack	
• 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