Keming He

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Professional Summary

Full Stack Developer specializing in AI automation, security hardening, and business-value-driven solutions. Proven track record of rapid delivery of lean and impactful enterprise applications. Conference speaker and open-source contributor with expertise in government systems and cloud infrastructure. GCP and Terraform certified.

Experience

Botcopy
AI Application Developer Intern (Full Stack) - *Google Cloud Platform, Terraform, Google Gemini*   May 2025 - August 2025
- Led AI automation system streamlining government chatbot maintenance with audit-compliant decision lineage
- **Accelerated test execution by 3.6x** through parallelization and **improved failure detection by 11.3x** (4min32s to 24s)
- Achieved zero rework through daily meetings and documentation-driven development ensuring full stakeholder alignment
- **Reduced infrastructure maintenance to <1min** while eliminating password vulnerabilities via Terraform automation

GitHub Socialify
Junior Full Stack Engineer - *React.js, Next.js, Playwright, REST APIs, GitHub Actions*   May 2024 - May 2025
- **Reduced linter dependencies by 80% while increasing speed by 90%** through BiomeJS integration
- Led Next.js app migration and prevented breaking changes by implementing comprehensive testing via Playwright

Undergraduate Student Government at The Ohio State University
Full Stack Developer and DevOps Engineer - *Next.js, Firebase, Google Cloud Functions*   January 2024 - May 2025
- Delivered scalable web app **3 weeks ahead of schedule** with secure, passwordless authentication to entire campus

School of Communication at The Ohio State University
Junior Software Engineer - *Python tkinter, Jupyter Notebook*   April 2020 - June 2020
- Automated manual data logging with **100% test coverage**, reducing operational overhead while improving data quality

College of Engineering at The Ohio State University
Software Engineering Teaching Assistant - *Java*   August 2019 - December 2019
- Supported 40-student Java course through detailed troubleshooting and grading feedback, reducing professor workload

Genome Wisdom (Startup)
Machine Learning Engineer Intern - *Python Sphinx, Jupyter Notebook*   May 2019 - August 2019
- Improved code quality through refactoring, streamlined team workflow by fully automating code documentation

Projects

PyOhio 2025 Speaker
Lead Researcher and Developer - *Python, GitHub API, Docker, MCP Architecture*   July 2025 (Conference)
- **Analyzed 21.9M Python repositories**, revealing switching costs as major barrier to adopting newer, faster tools
- Built cross-platform MCP server **unifying 4 major dependency managers** with weekly auto-sync via GitHub Actions

Buckeye GPT
Creator and Lead Developer - *Next.js, Google Gemini, Google Custom Search, GitHub Actions*   December 2024 - Present
- Engineered mobile-first ChatGPT alternative with Google Gemini, **reducing costs by 95%+** ($20 to <$1/month)

StrainSeer (Make OHI/O 2025 Hackathon - 3rd Place)
Creator and Lead Developer - *Python Streamlit, Docker, GitHub Actions*   March 2025
- Developed research tool from **concept to deployment in 12 hours**, cross-platform compatible with **100% test coverage**

Technical Skills

- Programming Languages: JavaScript (TypeScript), Python, Go, Java
- Full Stack: React.js, Next.js, Node.js, Express.js, Firebase
- DevOps: Google Cloud, Docker, GitHub Actions, Terraform
- AI: LangChain/LangGraph, Model Context Protocol (MCP), Pinecone Vector DB

Education & Certification

- Bachelor of Science in Computer Science and Engineering, Minor in Business   May 2027
  The Ohio State University   Columbus, OH
- Google Cloud Platform (GCP) Professional Cloud Developer Certification   July 2024 - July 2026
- HashiCorp Terraform Associate (003)   March 2025 - March 2027