

Keming He

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Professional Summary

Cloud Engineer specializing in Google Cloud infrastructure automation, security hardening, and enterprise service deployment. Proven track record of delivering scalable cloud solutions with infrastructure-as-code. Conference speaker and open-source contributor experienced in deploying government systems on GCP. GCP Professional Cloud Developer 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
The Ohio State University May 2027
Columbus, OH
- Google Cloud Platform (GCP) Professional Cloud Developer Certification July 2024 - July 2026
- HashiCorp Terraform Associate (003) March 2025 - March 2027