Ethan Tiller

Computer Science Major
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Education

University of Cincinnati **Cincinnati, Ohio**
Computer Science / B.S. - Junior
- GPA: 3.33
- Dean's List: Spring 2024, Summer 2025

Employment

AI Software Engineer | GE Appliances | Louisville, Kentucky **Aug. 2025 – Dec. 2025**
- **Deployed** an AI-powered Python project to the cloud for internal use to over 8,000 employees using a full stack including Google Cloud, DevOps/Terraform, and GitHub Actions for CI/CD.
- **Engineered** multiple project's Dockerfiles to run 40% faster and 55% smaller than previous versions, while simplifying logic.
- **Implemented** cloud-based vector database to support advanced retrieval methods for AI applications, integrating data visualization through Look Studio.
- **Architected** code structure for all future projects to ensure consistent and good code is written by future Co-Ops through documentation of frameworks, best-practices, and data visualization.

Embedded Software Engineer | GE Appliances | Louisville, Kentucky **Jan. 2025 – May. 2025**
- **Developed** embedded software to add cloud connectivity to appliance information, ensuring reliable data flow between devices and cloud systems.
- **Designed** state machines to control update workflows, reducing manual intervention and improving reliability for service teams.
- **Enhanced** version-control functionality by implementing a flag to prevent automatic downgrades on test appliances, allowing teams company-wide to manually decide when to downgrade.
- **Collaborated** with multiple teams to align on a common project goal, working in an Agile environment to refine and enhance the project's design process.
- **Delivered** solutions with company-wide applicability, expanding cloud connectivity and diagnostic capabilities across all appliance teams.

Projects

LC Route-Tracker – Spring 2025 Hackathon Project **Mar. 2025**
https://github.com/ethantiller/TrafficMonitorOld/
- **Led** a team of 3 as the Project Leader, providing guidance and support to team members throughout the 24-hour hackathon.
- **Developed** an AI-powered route planning website using HTML, CSS, and JavaScript, integrating various APIs and services.
- **Embedded** Google Maps Routes API and NOAA API to display interactive maps and detailed route information along with real-time weather data for predictions, along with integrating **Google's Gemini API** for a personal AI assistant.
- **Built** a server to handle AI assistant requests through endpoints, ensuring efficient communication between the front-end and back-end.
- **Leveraged** Node.js modules to enhance the functionality and performance of the website.

LANGUAGES & TECHNOLOGIES

Languages: Python, TypeScript/JS, C/C++, SQL, HTML, CSS, Terraform, Bash
Technologies/Tools/Skills: Git/GitHub/Actions, CI/CD, Docker, Google Cloud, DevOps, Looker Studio

Available for Co-op Summer 2026