

# Landon Harter

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## EDUCATION

### University of Michigan

Bachelor of Science in Computer Science, Minor in Entrepreneurship

May 2028

Ann Arbor, MI

## TECHNICAL SKILLS

**Languages:** JavaScript, TypeScript, Java, Python, C#

**Frameworks/Libraries:** Next.js, React, Tailwind CSS, ImGUI

**Backend/Databases:** Node.js, PostgreSQL, MongoDB, Prisma, Express, Hono, tRPC

**Tools/Other:** Git, Docker, Azure, Google Cloud Platform, Stripe

## EXPERIENCE

### Software Developer

Jun 2025 – Present

Sparrows (School Management Platform)

Ann Arbor, MI

- Migrated core database from **MongoDB** → **PostgreSQL**, improving query performance and **reducing backend codebase by 75%**.
- Designed a landing page displayed to **10,000+ users** and adopted by **30+ schools**.

### Software Lead

Feb 2024 – Jun 2025

Opal (AI Study Tool)

Richland, MI

- Led a team of **2 developers** to launch an AI-powered study tool serving **1,700+ students**, including use at **4 Ivy League schools + 25 additional universities**.
- Architected a **RAG pipeline** to cut AI usage costs by **50%**, subsequently improving performance.
- Transitioned hosting from serverless to containers using **Docker** and improved page loads by **300ms**

## PROJECTS

**Kodisc** | Next.js, Azure, PostgreSQL, Prisma, tRPC, Stripe, Python, Docker

Jan 2025 – Present

- Developed a full-stack **AI-driven video generation** platform, supporting **2,000+ users** across **20+ schools**.
- Built scalable API endpoints handling **3,000+** video requests/month, enabling seamless cloud **rendering and processing**.
- Reduced error rates by **80%** with **AI-driven RAG pipelines** and curated a dataset of **2,000+** code snippets and **1,000+** documentation pages.

**Draft1** | Next.js, Azure, PostgreSQL, Prisma, Stripe, WebSockets, Docker

Dec 2024 – Present

- Launched an **AI-powered** college admissions platform offering **10+ tools** that helped students gain admission to **Stanford, Notre Dame, UMich, and other top schools**.
- Designed a consultant dashboard with **Google Suite + Calendly integrations**, streamlining client management and cutting admin workload by **33%**.

**Renegent** | Next.js, SQL, Prisma, pgVector, Hono

Aug 2025

- Built a full-stack LLM management platform in **1 week**, enabling model, API key, and knowledge base orchestration in the **cloud**.
- Optimized backend performance with **Hono**, achieving a **50% faster response time** vs Express.js.

**Radium** | Java, OpenGL, ImGUI, Python, Express.js, Git

Nov 2021 – Jun 2023

- Engineered a lightweight 3D game engine with **real-time rendering**, advanced lighting, physics, shader support, and **Python scripting**.
- Optimized rendering pipeline to **sustain 200+ FPS** with **1,000+ draw calls/frame** on mid-range hardware