

Owen Newberry

Cincinnati, OH / Remote

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Current Applied Software Engineering student at Northern Kentucky University building performance-critical systems, real-time overlays, and full-stack applications. Seeking internship and full-time software engineering opportunities.

Education

Northern Kentucky University

Aug 2022 - May 2026

B.S., Applied Software Engineering

Experience

Software Engineer

Feb 2026 - Present

Mezher Law, Cincinnati, OH

- Build and improve internal tools that streamline legal-business workflows and reduce repetitive manual operations.
- Translate operational needs into practical software features, with emphasis on reliability and day-to-day usability.

Software Engineer Intern

Jan 2026 - Mar 2026

DNA Sports Center, Milford, OH

- Contributed to internal workflow software used by staff to organize and execute operational tasks more efficiently.

Scholars Intern

Jan 2024 - Apr 2024

Crossroads Church, Cincinnati, OH

- Built PowerBI financial reporting dashboards to visualize trends and improve decision visibility for stakeholders.

Selected Projects

Temporal Upscaling Compatibility Study

In Progress

Unreal Engine 5, C++, GPU Architecture, LaTeX

- Research-backed prototype validating software design patterns for DLSS/FSR compatibility.
- Implemented fixed-timestep simulation and workload budgeting for stable frame timing.

ARC Raiders Companion Overlay

In Progress

Python, dxcam, EasyOCR, OpenCV, DearPyGui

- Developing real-time overlay for inventory optimization with OCR/icon recognition and recommendations.
- Designed modular low-latency pipeline targeting under 10% CPU and under 50ms detection latency.

Forge: Trainer-Athlete Workout Logger

Prototype

Flutter, Dart, PocketBase, Firebase Auth/Firestore

- Built role-based trainer and athlete workflows for workout templates, assignments, and logging.
- Implemented offline-first data handling and progress tracking flows for consistent mobile usage.

Skills

Languages/Frameworks: Python, Dart, Flutter, React, Node.js, Next.js, JavaScript, Java, PHP

Specializations: Systems Architecture, Real-time Processing, Performance Optimization, Computer Vision

Data/Infrastructure: SQL, PocketBase, Firebase, Supabase, GPU Computing

Leadership & Service

President, NKU Norse Men's Club Volleyball

Aug 2024 - Aug 2025

Volunteer, Crossroads Church Student Ministry

Since Oct 2018