

Kooper Propp

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EDUCATION

Bachelor of Science in Computer Science

Manchester, NH

Southern New Hampshire University — GPA: 3.8

Expected Oct 2025

- **Relevant Coursework:** Software Development Lifecycle, Software Security, Operating Platforms, System Analysis and Design, Programming Languages

EXPERIENCE

Website Developer

Aug 2024 – Present

Lakeview Campground & Bar | Website

Milton, WI

- Increased user engagement by **20%**, measured via Vercel Analytics, by developing a high-performance Next.js website with a headless WordPress CMS and real-time updates via the WordPress REST API.
- Optimized for **5,000+ monthly visitors** by implementing lazy loading, API response caching, and image compression, leading to better performance and accessibility.

IT Office Associate

Mar 2024 – Sep 2024

Milton High School

Milton, WI

- Developed Skymaker, a Java-based automation tool, to streamline student data entry, pulling records from Skyward API and syncing them with FileMaker, eliminating **100+ hours** of manual work annually.
- Enhanced data accuracy by **40%** by building a real-time validation system that automatically detected **200+** name discrepancies and flagged invalid emails, ensuring up-to-date school records.

PROJECTS

Nexa Database | Website | Source Code

Next.js, TypeScript, Prisma, MongoDB, Chakra UI

- Designed and developed the careers page for **NexaDB**, a fictional database company created for competition purposes, implementing a responsive UI to enhance user experience.
- Optimized backend query performance by **30%** through indexed lookups and caching, reducing database response times and improving system efficiency.
- Secured **4th place out of 80 teams** in the FBLA Website Coding Competition for the design and implementation of NexaDB's careers page.

MHS Laude System | Website | Source Code

Next.js, TypeScript, Python, Chakra UI, Vercel

- Developed an automated laude distinction calculator where students can upload their transcripts and instantly receive a PDF summary of their academic honors, replacing manual calculations.
- Engineered a Python-powered backend to process transcripts and determine laude distinctions, integrating it with a Next.js frontend for a seamless user experience.
- Implemented a real-time PDF generator in Python, enabling instant report downloads and improving academic reporting efficiency for students and faculty.
- Deployed at **Milton High School**, where it automates transcript processing for **100+ student records** and **50+ reports** per term, saving **25+ hours** of manual labor.

Milton Relay | Documentation | Source Code

Flutter, Dart, Firebase

- Developed **Milton Relay**, a real-time school communication app built with Flutter and Firebase, providing students, parents, and teachers with access to school news, event schedules, absence reporting, and media sharing.
- Implemented role-based access control, enabling students, teachers, parents, and administrators to interact with different app features, including announcements, event updates, and absence notifications.
- Won **1st place in Wisconsin** and **4th place nationally** in the FBLA Mobile App Development Competition for innovation in school communication and accessibility.

TECHNICAL SKILLS

Programming Languages: Java, Kotlin, JavaScript/TypeScript, Dart, Python, HTML, CSS

Frameworks & Libraries: React, Node.js, Flask, JUnit, WordPress, Next.js, Flutter

Databases: Firebase, MongoDB, SQL, FileMaker

Developer Tools: Git, Vercel, Google Cloud Platform (GCP), VS Code, IntelliJ, Eclipse

Concepts: Object-Oriented Programming (OOP), Web Applications, API Development