

# Kooper Propp

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## EDUCATION

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### Southern New Hampshire University

Bachelor of Science in Computer Science

Manchester, NH

Expected Jun. 2025

**Relevant Coursework:** Programming Languages, Java OOP, C++ Program Design, Python, Web Development, Operating Systems

## EXPERIENCE

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### IT Office Volunteer

Milton High School

Mar 2024 – Sep 2024

Milton, WI

- Accomplished seamless integration of the **Skyward API** with the school's **FileMaker** database, improving student data management and saving **\$20,000 annually**.
- Ensured data accuracy by developing features to detect **200+** student name changes and flag invalid emails, working under mentor guidance.
- Enhanced project outcomes by integrating feedback from mentors, resulting in more robust features and improved efficiency in the final product.

## PROJECTS

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### Lakeview Campground & Bar's Website | *NextJS, Typescript, Headless WordPress CMS*

- Boosted visitor engagement by **20%** by developing a dynamic website using **Next.js** and a headless **WordPress CMS**, allowing real-time updates on campground details through the **WordPress REST API**.
- Supported **30,000+** monthly visitors by optimizing site performance, reducing load times by **40%**, and enhancing accessibility for a smoother user experience.

### Nexa Database | *NextJS, Typescript, Prisma, MongoDB, ChakraUI*

- Secured **4th place** nationally out of **80 teams** in the FBLA Website Coding Development competition by collaboratively building a responsive site using **Next.js** and **Tailwind CSS**.
- Enhanced user experience with design improvements, reducing load times by **30%** and meeting accessibility standards for a broader audience.

### MHS Laude | *NextJS, Typescript, Python, ChakraUI*

- Saved staff time by reducing transcript processing from **10-15 minutes** to **seconds** with a web tool that automates laude distinction calculations for high school transcripts.
- Enabled **instant PDF summaries** for reliable academic reports, benefiting both students and staff.

### Hamster Tracker | *NextJS, Recharts, Typescript, Python, ChakraUI, MongoDB*

- Monitored my hamster Bear's activity by developing a **Next.js** project that uses a hall sensor and magnet to track wheel rotations, calculating and displaying distance run for activity insights.
- Improved data accuracy and visualization for real-time insights into activity patterns, providing a smooth and engaging user experience.

### Milton Relay | *Flutter, Dart, Firebase*

- Achieved **1st place in Wisconsin** and **4th nationally** in the FBLA Mobile App Development competition by creating a cross-platform app in **Flutter** to enhance school communication.
- Increased app responsiveness and user engagement by refining features based on team feedback for improved communication efficiency.

## TECHNICAL SKILLS

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**Languages:** Java, JavaScript/TypeScript, Dart, Python, C++, HTML, CSS

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

**Databases:** Firebase, MongoDB, Filemaker

**Developer Tools:** Git, Google Cloud Platform, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse

**Libraries:** recharts