

Erin Miller

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EDUCATION

University of Wisconsin-Madison

Madison, WI

Bachelor of Science in Computer Science

Expected August 2025

- Relevant Coursework: Discrete Math, Data Structures, Software Design, Software Development, Linear Algebra, User Interfaces, Machine Organization, Algorithms

WORK EXPERIENCE

Junior Software Development and Support

Oct. 2024 – Present

Center for Dairy Research

Madison, WI

- Built a milk standardization tool in **Python** to support cheesemaking calculations, leveraging research-based formulas and a robust test suite for accuracy
- Created an interactive map with **React** and **JavaScript** to visualize cheese location data and associated information in an accessible format
- Led the design and implementation of a centralized SharePoint site to streamline internal resource access and enhance collaboration
- Delivered responsive desktop support to internal staff, specializing in Windows environments and software
- Authored clear, comprehensive knowledge base articles to improve internal support efficiency and self-service resources

Information Technology Support

May 2024 – Aug. 2024

Spectrum Brands

Middleton, WI

- Acted as the project manager for the IT Intern Project, coordinating team efforts and ensuring project milestones were met
- Provided front of the line support by answering calls and completing tickets in ServiceNow
- Utilized Active Directory, Citrix Director, and Azure Portal to resolve tickets
- Successfully performed troubleshooting, resolving user issues across various departments
- Collaborated with the intern team to diagnose and resolve technical problems efficiently

PROJECTS

ToonScout | *TypeScript, Node.js, MongoDB, Next.js, Docker, Vercel, React*

Sept. 2024 – Present

- Developed a user-friendly website using **Next.js**, **React**, and **TypeScript** to provide detailed in-game advising and information to **600+ weekly users** by integrating with the Toontown Rewritten companion app API
- Implemented a Discord bot to enable users to retrieve their character data through intuitive commands
- Collaborated with open-source contributors to triage issues, implement improvements, and respond to community feedback
- Utilized **MongoDB** to persist user data across sessions, incorporating regular backups to ensure reliability and data integrity
- Integrated **Docker** for both development and production to standardize environments and simplify deployment workflows

Toon API Calculator | *JavaScript*

Sept. 2024 – Present

- Created and published a **JavaScript** package on npm to calculate key in-game metrics such as suit stats, fishing stats, and activity scores for user characters
- Engineered efficient algorithms to dynamically analyze character progression and recommend optimal leveling strategies
- Wrote comprehensive documentation to ensure seamless developer integration and user adoption

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, HTML, CSS

Frameworks/Tools: JUnit, Node.js, Next.js, pytest, React, TailwindCSS

Developer Tools: Git, Visual Studio Code, Docker, Vercel