

Miray Hirabayashi

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EDUCATION

Iowa State University

Ames, Iowa

Bachelor of Science, Major in Software Engineering, Minor in Cybersecurity

Expected Graduation: May 2027

- **Relevant Coursework:** Object-Oriented Programming, Data Structures, Algorithms, Digital Logic, Cybersecurity Concepts, Embedded Systems, UI Design, Software Development Practices, Database Management Systems, Software Testing

WORK EXPERIENCE

Iowa Department of Transportation

Ames, Iowa

Administrative Intern

May 2025 - Present

- Developed a **Python**-based CLI tool to reconcile data between Workday and Microsoft Access exports, automating validation across **11,000+** records.
- Automated data entry and reporting workflows using **Microsoft Excel (XLOOKUP)**, improving database accuracy and reducing manual processing time.

Iowa State University Language Studies Resource Center

Ames, Iowa

Student Assistant

Dec 2024 - Present

- Provided technical support and troubleshooting for hardware and software used by students and faculty.

TECHNICAL SKILLS

- **Programming Languages:** Java, Python, JavaScript, TypeScript, C, PHP, SQL, Swift, HTML, CSS
- **Frameworks & Libraries:** React, Angular, Next.js, Node.js, Express, Flask, Tailwind CSS, SwiftUI, scikit-learn
- **Development Tools:** Git (GitHub, GitLab), Xcode, Android Studio, Figma, Postman, Vite
- **Databases:** MySQL, MongoDB
- **Operating Systems & Environments:** Linux (Ubuntu, Debian, Kali), macOS, Windows

PROJECTS

Iowa After Class | Next.js, React, Tailwind CSS, TypeScript

- Built and deployed a scalable full-stack event discovery platform with **Next.js** and **TypeScript**; implemented serverless API routes in **Next.js** to integrate real-time data from the **Ticketmaster Discovery API**.
- Developed a responsive frontend in **React** and **Tailwind CSS** after prototyping UI/UX with **Claude**, emphasizing performance and modular component architecture.
- Launched on **Vercel** with integrated analytics tracking, reaching **130+** users within the first week and validating early user engagement.

WorkSync - Android App | Java, Gradle, Android Studio

- Developed an employee and project management application for small businesses to track staff, assign tasks, and manage workflows.
- Designed and implemented the Android UI and application logic using **Java**, **Gradle**, and **Android Studio**, integrating REST APIs, WebSockets, and full CRUD functionality.
- Implemented **Git/GitLab** for version control, established CI/CD pipelines, and conducted unit testing in a collaborative environment.

Stock Price Predictor | Python, scikit-learn, pandas, matplotlib

- Developed a machine learning model using **Python** to predict the daily movement of the S&P 500 index.
- Engineered custom financial indicators and used **scikit-learn**, **pandas**, and **matplotlib** for model training, data processing, and visualization.
- Achieved a precision score of **0.57**, outperforming a baseline model.