

# PALINA SKAKUN

Engineering student with experience in Ruby on Rails, C++, Python, HTML, CSS, JavaScript, databases, seeking internships in software engineering and full-stack web development.

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## EDUCATION

**Bachelor of Science in Computer Science** – Michigan State University Honors College

Graduating May 2025

- **GPA:** 3.8/4.00
- **Coursework:** Algorithms and Data Structures, Object-oriented Software Development, Statistics and Probability, Advanced Web Development (**HTML, CSS, JavaScript**), Discrete Mathematics, Computer Architecture (ARM Assembly), Mobile App Development, Introduction to Artificial Intelligence
- **Involvement:** Spartan Hackers, Women in Computing, Women in Engineering, Cybersecurity Club
- **Honors/Awards:** Five terms University Honors, Dean's List, 100 Hours of Community Service Award
- **Affiliations:** CodePath, Rewriting the Code, Girls Who Code, SpartaHack

## EXPERIENCE

**Information Technology Services (University of Michigan)** – Web App Development Intern

Aug 2020 – July 2021

- Developed key components of **LSA SpaceReady**, a Ruby on Rails web application, streamlining nightly classroom checks for 300+ rooms ([Click to Read the Article](#))
- Designed database architecture, created the **application preferences page**, and implemented a dynamic **dashboard** for data visualization and analytics.
- Conducted **unit testing**, integrated feedback from end users and clients, and ensured accessibility compliance via **Hotwire** and **WAVE**.

**Scientific Technical Cooperative "Nauka"** - Software Intern

Aug 2020 – July 2021

- Collaborated with software engineers on a project to automate tower crane measurements.
- Utilized professional cameras and Python AI packages to gather measurements without manual climbing.
- Significantly reduced safety risks associated with manual tower crane inspections.

**Belarus Human Rights Center "Viasna"** - Technical Support Volunteer

July - Aug 2020

- Worked on maintaining the Telegram chatbot platform with the crucial information on missing and detained people during protests in Belarus, which was the only independent source of information at the time.
- Acquired the skill of collaborative programming using GitHub.

**MSU Mathematics Department** - Undergraduate Learning Assistant

Sep 2022 – Present

- Mentored students in the tutoring center, met individual needs of students.
- Instructed class sessions for 40+ students, ensured 98% course completion rate.

**Future Spartans Engineers Office of Recruitment** - Programming Mentor

June – Aug 2022

- Assisted learning sessions for an engineering summer camp "Making a Game of IT" to help students build a game in Python using Pygame.

## PROJECTS

**LSA SpaceReady** - [github.com/lisa-mis/room\\_ready](https://github.com/lisa-mis/room_ready) | [Project Poster](#)

A Rails application built for the LSA Sight and Sound team to streamline the daily inspection process for 300+ classrooms across the University of Michigan.

- Developed the **application preferences page**, **admin dashboard**, and **data visualization** tools for improved workflow and reporting.
- Integrated **PostgreSQL**, multiple APIs and automated **ticket submission** to enhance the inspection process.

**Spartan Planner (Mobile Application)** - <https://github.com/palinaskakun/Spartan-Planner.git> | Soon on Google Play

- Designed and developed Spartan Planner, a comprehensive campus event scheduler app for MSU, leveraging Firebase Firestore for scalable, real-time NoSQL database management, ensuring seamless cross-device synchronization of events and user data.
- Built and implemented full-stack solutions, including intuitive UI/UX design, backend development, and Firebase Authentication, showcasing expertise in creating secure, efficient, and dynamic mobile applications from concept to deployment.

## SKILLS – Languages & Frameworks

Python, Ruby, C++, Rails, C, HTML, CSS, JavaScript, React,  
Python Data Science Libraries, CSS (Bootstrap, Tailwind), Swift

## Tools

Docker, XML/JSON, MySQL, NoSQL, Kali  
Linux, Figma, Netlify