

# Christian Wilkins

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## EDUCATION

### Michigan State University

Bachelor of Science in Computer Science, Minor in Business - GPA 3.9

December 2025

East Lansing, MI

## EXPERIENCE

### Software Engineering Intern

June 2025 – August 2025

JPMorganChase

Columbus, OH

- Engineered an **AI-powered matching system** using **scikit-learn**, **spaCy**, and **PostgreSQL** that automated internal job placements, winning first place at **JPMC Global Hackathon** among **1000+ participants**, demonstrating ability to **deliver production-ready systems** under pressure.
- Optimized **AWS S3 data migrations** by engineering **concurrent Python pipelines** with **boto3** and **concurrent.futures**, achieving **95% performance improvement** and **reducing migration time** from hours to minutes for terabyte-scale datasets.
- Implemented **PactFlow contract testing framework**, reducing **cross-team integration failures by 90%** and enabling **autonomous microservice deployments** with confidence in system reliability.

### Software Engineering Intern

May 2024 – August 2024

Configura

Grand Rapids, MI

- Built a **custom sales extension** in a **75M+ line proprietary CM codebase (C#/Java-like)**, directly enabling product sales through **novel feature development** and **daily client collaboration** to meet exact specifications.
- Pioneered **3D spatial hit detection algorithms for modeled environments**, preventing physically impossible product configurations and improving user experience by ensuring **real-world accuracy** in virtual design.
- Navigated **massive undocumented systems** through proactive collaboration with senior engineers, demonstrating **rapid adaptation** and **ownership** in complex technical environments.

### Undergraduate Research Assistant

October 2023 – April 2024

Michigan State University

East Lansing, MI

- Built **ML pipeline** using **Python**, **scikit-learn**, **NLP**, and **computer vision** to auto-grade medical exams from **HIPAA-compliant datasets**, achieving **89% validation accuracy** and reducing grading time from **months to days**.

### Board Advisor & Former President

March 2024 – Present

Imagine Software

East Lansing, MI

- Led **60 students across 10 engineering teams**, conducting bi-weekly technical reviews and mentoring on software development best practices, **scaling membership by 100% to 350+ members** through strategic outreach.

## PROJECTS

### hurricane | Swift, MongoDB, Firebase, Go, iOS

September 2024

- Architected **'hurricane'** (Swift iOS frontend, Go backend), a **real-time ride-sharing platform** for emergency evacuations using **MongoDB** and **Firebase**, winning **Waymo prize @ ShellHacks 2024** for innovative autonomous vehicle integration design.
- Engineered **scalable concurrent Go routing system** for **multi-stop route optimization** with continuous GPS tracking, processing real-time location data for efficient passenger pickup and drop-off sequencing.

### RecycleMe | Flutter, Firebase, OpenAI APIs, Python, PyTorch, TensorFlow

October 2023 – April 2024

- Led **5-member agile team** to deliver RecycleMe MVP (**Flutter/Dart, Firebase**) in 90 days, integrating **GPT-Vision for object recognition** and training **custom CV model (90% accuracy)** using **PyTorch** and **TensorFlow** on proprietary dataset.
- Owned full product lifecycle from **technical specification** to deployment, managing sprints via Trello and fostering team growth in **agile methodologies** and **full-stack development**.

### Notelify | Next.js, React, Supabase, TypeScript

October 2023 – April 2024

- Developed **Notelify frontend (Next.js, React)** integrating **Mozilla Speech-to-Text API** and **OpenAI APIs** via **prompt engineering** for automated meeting summaries, reducing manual note-taking effort by **95%** and winning **'Best Use of AI'** award.

## SKILLS

**Languages:** Python, C++, C, Java, JavaScript, TypeScript, Go, Dart

**Technologies:** AWS (S3, EC2, Lambda), Docker, Kubernetes, Git, Linux, React.js, Firebase, Flask, NodeJS, NumPy, scikit-learn, PyTorch, TensorFlow, PostgreSQL, MongoDB, Spring Boot

**Concepts:** Autonomous Systems, AI/ML, Computer Vision, Data Structures & Algorithms, Distributed Systems, Microservices, CI/CD, Cloud Computing, Agile, Full Stack Development