Christian Wilkins

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EDUCATION

Michigan State University   December 2025
Bachelor of Science in Computer Science, Minor in Business - GPA 3.9   *East Lansing, MI*

EXPERIENCE

Software Engineering Intern   June 2025 – August 2025
JPMorganChase   *Columbus, OH*
- Developed an **AI-powered matching engine** using **Python, scikit-learn, spaCy, and PostgreSQL** that streamlined internal job placements, winning **first place** at <u>JPMC Global Hackathon</u> among **1000+ participants**.
- Optimized **AWS S3 data migrations** by **95%** using **concurrent.futures and boto3 in Python**, applying concurrency principles to process large-scale financial datasets efficiently.
- Implemented **PactFlow and Jules contract testing** across **microservices**, reducing cross-team integration issues by **90%** and ensuring reliable **CI/CD pipelines**.

Software Engineering Intern   May 2024 – August 2024
Configura   *Grand Rapids, MI*
- Engineered a customer-facing sales extension in a **75M+ line proprietary codebase (C#/Java-like)**, collaborating daily with clients to integrate functionalities that enabled their core product sales.
- Pioneered novel **3D hit detection algorithms** for modeled spaces, preventing invalid configurations and enhancing user experience through robust spatial validation.

Undergraduate Research Assistant   October 2023 – April 2024
Michigan State University   *East Lansing, MI*
- Built **ML pipeline using Python, scikit-learn, NLP, and CV** to auto-grade standardized patient medical exams, processing HIPAA-compliant data and achieving **89% validation accuracy**.
- Reduced exam grading time from months to days, demonstrating impact of **machine learning** in healthcare education while adhering to strict data privacy requirements.

Board Advisor   March 2024 – Present
<u>*Imagine Software*</u>   *East Lansing, MI*
- Oversaw internship-like experience for **60 students across 10 agile development teams**, conducting bi-weekly check-ins to mentor on system design, APIs, and code reviews.
- Promoted to President, driving **100% membership growth (350+ new members)** through targeted campus outreach and fostering collaborative learning environment.

PROJECTS

<u>hurrycane</u> | *Swift, MongoDB, Firebase, Go, iOS*   September 2024
- Architected real-time ride-sharing app with **Swift iOS frontend and Go backend**, using **MongoDB and Firebase** for emergency evacuations, **winning Waymo @ ShellHacks 2024**.
- Implemented **scalable, concurrent Go routing** for optimized multi-stop routes with continuous location tracking, handling high-volume concurrent user requests.

<u>Notelify</u> | *Next.js, React, Supabase, TypeScript, AI APIs*   October 2023 – April 2024
- Developed full-stack application with **Next.js, React, and TypeScript**, integrating **Mozilla Speech-to-Text and OpenAI APIs** for automated meeting summaries via prompt engineering.
- Automated note-taking via **AI**, reducing student effort by **95%**; won **'Best Use of AI' award**.

RecycleMe | *Flutter, Firebase, Python, PyTorch, OpenAI APIs*   October 2023 – April 2024
- Led **5-member agile team** to deliver MVP in 90 days using **Flutter, Firebase, and GPT-Vision APIs** for object recognition, gamifying recycling with **90% model accuracy**.

SKILLS

Languages: Python, Java, JavaScript, TypeScript, C++, C, C#, Golang, Dart, HTML/CSS
Technologies: React.js, Node.js, Next.js, Spring Boot, Flask, AWS (S3, EC2, Lambda, RDS, DynamoDB, IAM, CloudFormation), Docker, Kubernetes, Git, PostgreSQL, MongoDB, Firebase, NumPy, scikit-learn, PyTorch
Concepts: Data Structures & Algorithms, Agile, CI/CD, Microservices, Cloud Computing, AI/ML, Full Stack Development, DevOps, Contract Testing, Database Design, Software Development Life Cycle (SDLC)