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*

- Optimized **AWS S3 data storage migrations** achieving **95% concurrency improvement** using **Python, boto3, concurrent.futures** to enhance **cloud storage performance** at scale.
- Built AI-powered matching engine (**scikit-learn, PostgreSQL**) that streamlined job placements, winning <u>JPMC Global Hackathon</u> (1000+ participants).
- Implemented **contract testing (PactFlow, Jules)** in **distributed systems**, reducing integration issues by 90%.
- Designed **fault-tolerant data pipelines** handling 10TB+ daily throughput with automated retry mechanisms and **error monitoring**.

Software Engineering Intern May 2024 – August 2024

Configura *Grand Rapids, MI*

- Engineered custom sales extension in **75M+ line C# codebase**, collaborating with clients to integrate new functionalities in **large-scale systems**.
- Navigated undocumented **legacy systems**, collaborating with senior engineers to ensure seamless integration and optimal **performance at scale**.
- Developed novel hit detection algorithms preventing impossible configurations and enhancing system reliability.

Undergraduate Research Assistant October 2023 – April 2024

Michigan State University *East Lansing, MI*

- Built HIPAA-compliant **data storage and retrieval systems** for ML pipeline (**Python, scikit-learn**) achieving 89% accuracy in medical exam auto-grading.
- Optimized **data processing pipelines** reducing grading time from months to days through **parallel processing** and efficient storage design.

Board Advisor March 2024 – Present

Imagine Software *East Lansing, MI*

- Led technical mentorship for 60 students across 10 teams, empowering growth in **systems programming** and achieving 100% membership growth (350+ members).

PROJECTS

hurrycane | *Go, MongoDB, Firebase, iOS* September 2024

- Architected **'hurrycane' with Go backend**, implementing **scalable, concurrent routing algorithms** for multi-stop routes and real-time location tracking in **distributed system architecture**, winning Waymo @ ShellHacks 2024.
- Designed **high-performance data storage** using MongoDB and Firebase for emergency evacuation coordination, optimizing for low-latency reads and writes under high concurrent load.

RecycleMe | *Python, PyTorch, TensorFlow, Firebase* October 2023 – April 2024

- Led 5-member team developing MVP with **custom data processing pipeline** using **Python, PyTorch, TensorFlow** for object recognition (90% accuracy), implementing efficient **storage and retrieval systems** for training datasets.
- Architected **distributed backend systems** using Firebase for real-time data synchronization and scalable user management across multiple concurrent sessions.

SKILLS

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

Technologies: AWS (S3, EC2, Lambda, RDS, DynamoDB), Linux, Windows, Docker, Kubernetes, Git, PostgreSQL, MongoDB, Firebase, NumPy, scikit-learn, Spring Boot

Concepts: Storage Systems, Distributed Systems, Cloud Storage, Block Storage, Operating Systems, Concurrent Programming, Data Processing Pipelines, Performance Optimization, Data Structures and Algorithms