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*
- Built **AI-powered matching engine** using **scikit-learn, spaCy, PostgreSQL** for internal job placement optimization, winning first place at JPMC Global Hackathon among 1000+ participants.
- Designed and implemented **feature extraction pipeline** with **NLP tokenization and TF-IDF vectorization**, processing 10K+ job descriptions to compute semantic similarity scores using cosine distance metrics.
- Optimized **AWS S3 data migration** by implementing **concurrent processing in Python**, leveraging **concurrent.futures and boto3** to reduce migration time by 95% while maintaining data integrity.
- Integrated **PactFlow contract testing framework**, reducing cross-team integration errors by 90%.

Software Engineering Intern   May 2024 – August 2024
Configura   *Grand Rapids, MI*
- Engineered custom extension in **75M+ line proprietary codebase (C#/Java-like)** through daily client collaboration, navigating undocumented **system architecture** to deliver production features.
- Designed novel **hit detection algorithm** for 3D modeled spaces, preventing invalid configurations and eliminating user errors through rigorous edge-case testing and spatial reasoning.
- Debugged complex issues across distributed codebase by tracing **execution paths through multiple modules**, collaborating with senior engineers to understand architectural patterns and design decisions.

Undergraduate Research Assistant   October 2023 – April 2024
Michigan State University   *East Lansing, MI*
- Built **ML pipeline (Python, scikit-learn, NLP, CV)** for auto-grading medical exams, processing HIPAA-compliant data to achieve 89% validation accuracy, reducing grading time from months to days.

Board Advisor, Former President   March 2024 – Present
Imagine Software   *East Lansing, MI*
- Led student organization of 350+ members, mentoring 10 agile teams through software development lifecycle, conducting bi-weekly technical reviews and architectural discussions.

PROJECTS

hurrycane | *Swift, Go, MongoDB, Firebase, iOS*   September 2024
- Architected real-time ride-sharing system with **Swift frontend and concurrent Go backend**, implementing **multi-stop routing algorithms** with Firebase for emergency evacuations, winning Waymo @ ShellHacks.

RecycleMe | *Flutter, Firebase, OpenAI APIs, Python, PyTorch, TensorFlow*   October 2023 – April 2024
- Led 5-member agile team to build RecycleMe MVP in 90 days using **Flutter/Dart and Firebase**, integrating **GPT-Vision API** with custom dataset achieving 90% object recognition accuracy.
- Managed sprint planning and technical architecture using Trello, facilitating knowledge transfer of **full-stack development patterns** and agile methodologies across team members.

Notelify | *Next.js, React, Supabase, TypeScript*   October 2023 – April 2024
- Developed **Next.js/React frontend** integrating Mozilla Speech-to-Text with **OpenAI APIs via prompt engineering** for automated meeting summaries, reducing note-taking effort by 95%.

SKILLS

Languages: Python, Java, C, C++, JavaScript, TypeScript, Dart, Go, HTML
Technologies: React.js, Node.js, Firebase, AWS (S3, EC2, Lambda, DynamoDB), Docker, Git, Flask, NumPy, scikit-learn, PyTorch, TensorFlow, PostgreSQL, MongoDB, Supabase, Linux, Flutter, Spring Boot
Concepts: Data Structures & Algorithms, Systems Programming, Concurrent Programming, Machine Learning, Full Stack Development, Cloud Computing, Agile Development, Problem Solving