

Christian Wilkins

christian.wilkins.careers@gmail.com | linkedin.com/in/christian-wilkins/ | github.com/christianwilkins | chriswiki.com

EDUCATION

Michigan State University <i>Bachelor of Science in Computer Science, Minor in Business - GPA 3.9</i>	December 2025 East Lansing, MI
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EXPERIENCE

Software Engineering Intern <i>JPMorganChase</i>	June 2025 – August 2025 Columbus, OH
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- Built an **AI-powered matching engine (scikit-learn, spaCy, PostgreSQL)** that automated internal job placements by analyzing employee profiles against role requirements, winning first place at JPMC Global Hackathon out of **1000+ participants**.
- Optimized **AWS S3 data migration pipelines** by implementing **concurrent.futures** and **boto3** in **Python**, reducing processing time by **95%** and enabling seamless transfer of **TB-scale datasets**.
- Implemented **PactFlow & Jules contract testing** for microservices, catching integration issues pre-deployment and reducing cross-team bugs by **90%**, improving system reliability across distributed services.

Software Engineering Intern <i>Configura</i>	May 2024 – August 2024 Grand Rapids, MI
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- Engineered a custom **sales extension in a 75M+ line proprietary codebase (C#/Java-like)**, collaborating with clients daily to integrate product configurator features that enabled **\$1M+ in projected revenue**.
- Navigated a vast, undocumented system by proactively engaging senior engineers, ensuring seamless integration and maintaining code quality across multiple modules.
- Designed and implemented novel **hit detection algorithms** for 3D modeled spaces in CM, preventing impossible product configurations and enhancing user experience by validating spatial constraints in real-time.

Undergraduate Research Assistant <i>Michigan State University</i>	October 2023 – April 2024 East Lansing, MI
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- Processed **HIPAA-compliant medical data** for an **ML pipeline (Python, scikit-learn, NLP, CV)** that auto-graded standardized patient exams, achieving **89% validation accuracy** and reducing grading time from months to days.

Board Advisor <i>Imagine Software</i>	March 2024 – Present East Lansing, MI
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- Mentored **60 students across 10 development teams** building full-stack applications, conducting bi-weekly code reviews and providing technical guidance on **system design, APIs, and version control best practices**.
- Promoted to President, resulting in **100% membership growth to 350+ members** through targeted outreach campaigns and improved onboarding processes.

PROJECTS

hurricane <i>Swift, MongoDB, Firebase, Go, iOS</i>	September 2024
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- Architected and developed **real-time ride-sharing app (Swift iOS frontend, Go backend)** with **MongoDB and Firebase** for emergency evacuations, implementing **scalable concurrent routing algorithms** for multi-stop optimization. **Won Waymo @ ShellHacks 2024**.

RecycleMe <i>Flutter, Firebase, OpenAI APIs, Python, PyTorch, TensorFlow</i>	October 2023 – April 2024
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- Led **5-member agile team** to build RecycleMe MVP in 90 days using **Flutter/Dart and Firebase backend**, integrating **GPT-Vision APIs** for object recognition with custom **PyTorch/TensorFlow dataset (90% accuracy)**, gamifying recycling behavior.

Notelify <i>Next.js, React, Supabase, TypeScript</i>	October 2023 – April 2024
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- Developed **Next.js/React frontend** integrated with **Mozilla Speech-to-Text API** and **OpenAI APIs** via prompt engineering, automating meeting summaries and reducing student note-taking effort by **95%**. **Won Best Use of AI award**.

SKILLS

Languages: Python, Java, C++, JavaScript, TypeScript, Golang, C, Dart, SQL
Technologies: React.js, Node.js, Flask, Spring Boot, Firebase, AWS (S3, EC2, Lambda, RDS, DynamoDB, CloudFormation), Docker, Kubernetes, PostgreSQL, MongoDB, Git, Linux, Spinnaker, NumPy, scikit-learn
Concepts: Data Structures & Algorithms, System Design, Microservices Architecture, RESTful APIs, CI/CD, Contract Testing, Database Design, Cloud Computing, Real-Time Systems, Agile Development, Version Control, Unit Testing