

John Stouffer

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EDUCATION

Michigan State University

B.S. Computer Science | Dean's List 6x | GPA: 3.82

East Lansing, MI

May. 2026

EXPERIENCE

Software Engineering Intern

Collins Aerospace

May 2025 – Aug. 2025

Cedar Rapids, IA

- Improved field test accuracy by 80% by integrating a real-time map framework predicting GPS jammer locations, error radius, and vehicle positions.
- Increased operator satisfaction by 50% by refining UI features and workflows from weekly operator/engineer feedback.
- Achieved real-time filtering of 500+ messages per minute with a multi-threaded GPS message parser.

Software Intern

Tesla

May 2024 – Aug. 2024

Reno, NV

- Designed 10+ real-time KPI dashboards in Power BI to monitor 100+ machines on the factory floor.
- Reduced planner workload by 15+ hours weekly by developing an automated KPI alerting system.
- Automated data refresh pipelines to deliver up-to-date efficiency metrics for 50+ technicians.

Teaching Assistant (Data Structures and Algorithms)

Michigan State University

Jan. 2025 – Aug. 2025

East Lansing, MI

- Collaborated with 15+ ULAs and instructors to design and refine coursework and exams for 300+ students.
- Led helprooms and debug sessions, supporting 30+ students weekly on data structure and algorithm projects.
- Resolved 100+ student questions on Piazza, improving accessibility outside helproom hours.

PROJECTS

Odyssey Maps | *React, Spring Boot, Java, Leaflet, PostgreSQL, TypeScript, Git*

May 2024 – Present

- Built a full-stack platform (React/Leaflet + Spring Boot) to track progress across 15 Mario Odyssey maps.
- Implemented JWT-based authentication and role-based access for 50+ users.
- Developed 5+ REST APIs with layered architecture and validated them with 30+ JUnit tests.

FocusTube | *Next.js, TypeScript, YouTube API, Tailwind CSS*

May 2025 – Present

- Built a distraction-free YouTube wrapper that removes distractions to encourage intentional viewing.
- Integrated 5+ YouTube Data API endpoints for search, video playback, and playlist management.
- Adopted as a core tutorial by MSU Imagine Software, with 50+ students using it as a learning resource.

UFC Fight Predictor | *PyTorch, BeautifulSoup, Pandas, Python*

July 2023 - Aug. 2023

- Scraped data on 12,000+ UFC fights since 1993 to train a PyTorch neural network.
- Achieved 70% accuracy through preprocessing, model tuning, and result visualization.

EXTRACURRICULARS

Imagine Software | *E-Board, Team Lead*

Jan. 2023 – Present

- Directed the club's Educational Pipeline for 50+ members, delivering 5+ tutorials and 15+ lessons per semester.
- Helped grow MSU's largest SWE-focused club to 900+ members and 90+ active participants.
- Led a 6-person developer team building an AR/VR mobile app to increase tourism in Aurora, IL.

TECHNICAL SKILLS

Languages: Python, C/C++, Java, TypeScript, JavaScript, MySQL, PostgreSQL, HTML/CSS

Frameworks: React, Next.js, Node.js, Spring Boot, Flask, Django, React Native, Firebase, Qt

Developer Tools: Git, Docker, GCP, Linux/Unix, Android Studio, Subversion

ML & Data: PyTorch, Scikit-learn, Pandas, NumPy, Polars, Matplotlib, BeautifulSoup