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ANDREW LUWAGA

SOFTWARE ENGINEER

SUMMARY

Master's student in Computer Science at the University of Michigan with 4 years of prior experience as a Software Engineer at Visa. Skilled in full-stack development, cloud computing, distributed systems, and data management. Seeking a Summer 2026 software engineering internship at a top institution to apply expertise in building scalable and high-performance systems.

EDUCATION

M.S in Computer Science, University of Michigan
AUG 2025 – MAY 2027 (EXPECTED)

- **Specialization:** AI and Data Management

B.S in Software Engineering, Manchester University
AUG 2017 – MAY 2021

- **Minor** in Mathematics and Data Science.

EXPERIENCE

JAN 2026 – PRESENT

Graduate Research Assistant, University of Michigan, USA

- **Project Thesis:** Investigating failure modes of LLM-based memory leak detection in C/C++ with a focus on reasoning depth, context limits, and ownership modeling.

APR 2023 – JAN 2025

Senior Software Engineer, Visa Inc, USA

- Engineered and optimized high throughput enterprise systems, improving operational efficiency by 20% across a 1,000+ user base.
- Maintained 99% uptime for mission critical enterprise systems through robust monitoring and collaborative debugging best practices.
- Designed and implemented RESTful APIs for seamless third party data integration, resulting in a 10% increase in sales by streamlining automated workflows.
- Led training sessions for 5 summer interns, providing technical direction and project support; resulted in successful project completion and enhanced their skill sets, with 100% of interns receiving positive feedback from their managers

JUN 2021 – APR 2023

Software Engineer, Visa Inc, USA

- Developed and maintained custom Dynamics CRM features using C# and JavaScript, improving application performance and usability for 500+ stakeholders.
- Diagnosed and resolved critical issues, minimizing downtime and maintaining a 99% system reliability rate.
- Enhanced system performance, increasing productivity for cross-functional teams by 15%.
- Enhanced CI/CD pipelines, automating build and deployment processes to improve release efficiency and system reliability.

MAY 2020 – JUL 2020

Software Engineering Intern, Visa Inc, USA

- Designed a progressive web app with React.js, Spring Framework, and APIs, achieving 95% accuracy in predicting service wait times to reduce COVID-19 exposure risks.
- Proposed and executed a digital marketing strategy to drive the adoption of digital payments among unbanked populations

SKILLS

- **Programming Languages:** Python, Java, C#, Typescript, JavaScript, .Net 9, R, HTML, CSS.
- **Frameworks**: MS PowerApps, React.js, Next.js, NestJS, Node.js, Spring.
- **Cloud & Databases:** Microsoft Azure, AWS, PostgreSQL, DuckDB, MySQL, Firebase.
- **Development Tools:** Spark, Hadoop, Git, Github, Docker, Jira, Postman, Maven, Gradle, Workato, Cloudflare Workers, Framer.
- **Other Skills:** RESTful APIs, Dynamics 365 CRM, Salesforce CRM, Power Automate, Power Apps, Agile Methodologies.
- **Certifications:** AWS Certified Cloud Practitioner (CLF-C02), MS Azure fundamentals (AZ-900)