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ANDREW LUWAGA

SOFTWARE ENGINEER

Software Engineer with 4+ years of enterprise experience architecting highly scalable internal tools, CRM infrastructure, and data pipelines. Currently specializing in Artificial Intelligence and Data-Intensive Applications. Passionate about distributed systems, backend optimization, and building heavy engineering workflows.

EXPERIENCE

MAY 2026 – AUG 2026

Software Engineering Intern, WebstaurantStore

- Architected the migration of legacy ColdFusion SEO and marketing applications to a modern .NET ecosystem, resolving historical technical debt and improving system maintainability.
- Engineered scalable backend infrastructure and integrated net new features during the framework migration, reducing workflow friction and improving application response times by 15%.

JAN 2026 – APR 2026

Graduate Research Assistant, University of Michigan

- Developed highly specialized frameworks to identify memory leak failure modes within LLM architectures.
- Analyzed complex performance bottlenecks related to reasoning depth and context limits, modeling memory ownership to improve execution efficiency at scale.

APR 2023 – JAN 2025

Senior Software Engineer, Visa Inc

- Scaled mission-critical internal CRM systems to support a 1,000+ user base, optimizing backend data flows and query performance, boosting operational efficiency by 20%.
- Designed and deployed robust RESTful APIs to facilitate asynchronous third-party data synchronization, eliminating manual workflows and driving a 10% increase in sales velocity.
- Directed the technical execution of a 5-person engineering intern cohort, enforcing rigorous code reviews and system design best practices to ensure successful, production-ready project delivery.

JUL 2021 – APR 2023

Software Engineer, Visa Inc

- Developed and deployed complex feature extensions for Dynamics 365 CRM utilizing C# and JavaScript, enhancing data processing capabilities and usability for 500+ stakeholders.
- Overhauled CI/CD deployment pipelines by automating testing and build processes, significantly reducing release overhead and mitigating deployment failures.
- Resolved critical system regressions through rigorous root-cause analysis and distributed debugging, maintaining stringent high-availability requirements.

PROJECTS

Real-Time Collaborative Platform

- Architected a highly concurrent, multiplayer collaborative environment for storytelling utilizing Cloudflare Durable Objects, ensuring low-latency state synchronization and resolving complex state management across distributed user sessions.

Playlist Port

- Developed a python open source project that transfers music playlists between Spotify and YouTube Music, from the command line on your own machine, with your own API credentials.

EDUCATION

M.S in Computer Science, University of Michigan

AUG 2025 – MAY 2027 (EXPECTED)

B.S in Software Engineering, Manchester University

AUG 2017 – MAY 2021

SKILLS

- **Programming Languages:** C#, Java, Python, TypeScript, JavaScript.
- **Cloud & Databases:** PostgreSQL, AWS, Microsoft Azure, MySQL, DuckDB, Spark, Hadoop.
- **Frameworks:** .Net, Spring, Nest.js, React.js, Next.js, Node.js, MS PowerApps.
- **Tools & CI/CD:** Git, GitHub, Maven, Docker, Azure DevOps, Jira, Postman, Workato, Cloudflare.