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Dear Hiring Team,

I am writing to apply for the Software Engineer Intern role at Ripple. I have followed Ripple's work in reshaping the global financial system and am drawn to the mission of moving value with the same speed and ubiquity as information. As a developer with a background in building transaction-heavy applications and a strong interest in financial markets, I am eager to contribute to the central Data Engineering team that powers these capabilities.

Your description highlights the need for engineers who are curious about system bottlenecks and failure modes. This aligns perfectly with my approach to software development. During the creation of my Event Ticket Purchasing Platform, I did not just build features; I architected the system for high concurrency. I designed a normalized PostgreSQL schema and optimized queries to handle transactional load without latency. This experience taught me the importance of data structure and efficiency, skills I am eager to apply to Ripple's large-scale data ingestion and transformation challenges.

I also understand that robust data engineering requires a solid grasp of cloud infrastructure. While my recent work has utilized Azure, where I deployed ASP.NET Core applications and managed server-side validation, these concepts translate directly to the AWS ecosystem you utilize. I am proficient in Python and SQL, and I am comfortable navigating the trade-offs between different architectural solutions. My experience building an LMS Dashboard further sharpened my ability to manage complex data persistence and administrative workflows, ensuring that the end-user analytics were both accurate and accessible.

Beyond the technical stack, I bring a collaborative and ownership-driven mindset. As a Project Coordinator for my system development team, I led the creation of technical specifications and managed sprint tasks to ensure timely delivery. I enjoy breaking down ambiguous problems into clean, shippable code and would be excited to do so within Ripple's fast-paced environment.

Thank you for considering my application. I would value the opportunity to discuss how my background in full-stack development and data optimization can support Ripple's mission to build real-world value.

Sincerely,
Ifrad Hossain