Mila Aguirre

Cover Letter

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Hiring Team
LoomCart
Emeryville office
Emeryville, CA

Dear Hiring Team at LoomCart,

I am excited to apply for the Machine Learning Architect, Personalization role at LoomCart. With 16+ years in software engineering, machine learning, and data science, including 11+ years focused on **recommender systems**, I bring the technical leadership and hands-on experience needed to guide personalization across a large marketplace.

In my current principal-level role, I set architecture for retrieval, ranking, reranking, and **real-time serving** across six marketplace surfaces. I have authored architecture RFCs, led technical reviews, and aligned engineers, data scientists, and product leaders on shared platforms and service goals. My work includes **low-latency serving**, OpenSearch, vector databases, **streaming pipelines**, and online feature stores for catalogs with millions of active items.

I bring a practical approach to measuring recommendation quality. I connect recall, precision, NDCG, and diversity with conversion and AOV, giving product and merchandising partners a clear basis for decisions. I have guided migrations from batch-only features to continuously refreshed signals, addressed **cold-start** needs, and mentored senior engineers and scientists without formal authority.

LoomCart's mission to make secondhand shopping easier and more sustainable is especially appealing to me. Personalization for apparel, shoes, and accessories creates an interesting technical problem, with a large and changing catalog and distinct needs for buyers, sellers, brands, and retailers. I would welcome the chance to help build scalable recommendation products that support this marketplace.

Thank you for your time and consideration. I would welcome the opportunity to discuss how my experience can support LoomCart's personalization strategy.

Sincerely,

Mila Aguirre