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Dear Hiring Manager,

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It is with great enthusiasm that I submit my application for the Senior Core / Backend Engineer position at Vendia. As a Software and Data Engineer with a wealth of experience in distributed systems, healthcare technology, and AI, I am confident that my skills and expertise align well with Vendia's mission to deliver innovative, multi-cloud, distributed data platforms.

Throughout my career, I have consistently demonstrated my ability to design and implement scalable, highly available, and fault-tolerant distributed systems. During my tenure as Principal Engineer at Guidance Analytics, I successfully architected a distributed serverless infrastructure using AWS SAM, Lambda, Cognito, DynamoDB, and API Gateway, optimizing for cost and scalability. I also added "9s" of availability to cloud-based services and resolved long-tail latencies in the 99th percentile to ensure system reliability and performance.

As a Ph.D. candidate in Cognitive and Computer Science, my research has focused on incorporating Natural Language Understanding and Generation into modern cognitive architectures. I developed novel knowledge representation systems for LLM-driven dialogue agents and have received competitive research grants from IBM, RPI, ONR, and AFRL to fund my work in AI and Information Retrieval. During my time as a Data Scientist at Meta, I developed user experiments for Messenger Notifications, collecting and analyzing data from over 100 million daily users. I engineered and optimized data processing and ETL pipelines that handle billions of data points daily, showcasing my ability to work with massive datasets and leverage data-driven decision-making.

My strong technical abilities span a wide range of languages and technologies, including Rust, Python, GoLang, AWS, Docker, and Kubernetes. I am a proactive problem-solver, always seeking to implement best practices and optimize systems for performance, security, and scalability.

I am thrilled at the prospect of joining Vendia and contributing to the development of your distributed data platform. With my unique blend of expertise in distributed systems, healthcare technology, AI, and data science, I am well-equipped to collaborate with the engineering team and product managers to deliver critical customer-facing functionality and drive the company's growth.

Thank you for considering my application. I look forward to the opportunity to discuss further how my skills and experience can contribute to Vendia's success.

All my best,

Ivan Leon