Eli Castillo

VP of Engineering - Python

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Hiring Team
Northstar Meridian Financial
Newark, NJ

Dear Hiring Team,

I am applying for the VP of Engineering - Python role because the work is closely aligned with the systems I have led and built throughout my career: Python-based pricing platforms that distribute large financial workloads, move the right data to each calculation, and remain dependable during demanding valuation windows. I bring more than 13 years of experience across quantitative finance, distributed systems, AWS, GCP, Kubernetes, Docker, and infrastructure as code.

In my current role, I direct the architecture and operation of a multi-region pricing platform supporting millions of trade revaluations across historical market scenarios. I have guided orchestration changes across CPU and GPU pools, established model-release controls and automated test gates, and worked with quantitative research, trading, and risk leaders to resolve valuation incidents without losing sight of control requirements. Earlier, I designed scheduling and queue-management services that separated urgent intraday work from overnight portfolio batches, while improving resource utilization.

The operational details matter in this kind of platform. I have reworked market- and trade-data staging with manifests, runtime validation, and calculation lineage; investigated performance problems involving serialization, network transfer, worker startup, and memory pressure; and built dashboards for queue depth, worker health, latency, spend, and failed-task recovery. I have also coordinated recovery exercises and documented recovery objectives for critical services. These experiences have taught me to treat speed, reproducibility, availability, and risk controls as one engineering problem rather than separate priorities.

I also enjoy the leadership side of the work: setting practical coding, testing, debugging, and release standards; reviewing architecture; coaching engineers; and translating quantitative requirements into interfaces and acceptance criteria that teams can implement and operate. My background includes Monte Carlo, VaR, XVA, and derivatives-pricing workloads, along with a B.S. in Computer Science and AWS Solutions Architect Professional and Certified Kubernetes Administrator credentials. I would welcome the opportunity to discuss how I could help Northstar Meridian Financial strengthen its pricing engine and the teams responsible for it.

Thank you for your consideration. I look forward to hearing from you.

Sincerely,

Eli Castillo