ERIC HERNANDEZ

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SUMMARY

Software Engineer with a Bachelors Degree in computer science and 1.5 years of experience specializing in high-performance market data systems. Proven experience building resilient backend systems, implementing strategic caching architectures, optimizing databases, and modernizing legacy financial infrastructure at enterprise scale.

EXPERIENCE

Bloomberg LP | Software Engineer   Mar 2024 - Present

- Architected and implemented strategic caching layers for fixed income benchmark database processing over 1 billion daily queries, improving system response time by 40% and reducing database CPU usage by over 90%
- Designed and deployed microservice for fixed income benchmark indices on the Bloomberg Terminal, increasing data accessibility for internal clients and by deploying a microservice that boosts data accessibility and reduces query response times
- Deployed a daily batch job to populate a new pricing source for Japanese Government Bonds on the Bloomberg Terminal, enhancing data visibility and trading capabilities for an institutional client
- Led database migration initiative for entity data microservice, expanding available financial data coverage by 10+ fields for internal clients
- Built Grafana dashboards to monitor key metrics for fixed income databases and microservices across our organization, enabling faster issue detection and reducing incident response time

UC Santa Cruz IT Services | Software Developer   Jan 2023 - Sep 2023

- Migrated high-traffic poster printing service used by 16,000+ students and faculty to modern web stack, improving system reliability
- Enhanced payment processing system with improved error handling and user experience optimization, increasing successful order and transaction completion rates

NVIDIA Corporation | Software Engineer Intern   Jun 2021 - Aug 2021

- Designed and implement automated Code Review Framework for Perforce code review changelists, improving code quality for an org of 20+ developers
- Contributed to GPU resource manager testing and debugging on Linux platforms, helping resolve a security bug

SKILLS

Core Experience: Real-time Data Processing, Database Optimization, Microservice Architecture, Market Data Systems
Implementation: C, C++, Python, TypeScript, JavaScript, SQL, Docker, Linux
Technologies: PostgreSQL, Comdb2, Redis, Kafka, Job Schedulers

EDUCATION

University of California Santa Cruz | B.S. Computer Science   Sep 2019 - Jun 2023

ORGANIZATIONS

Bloomberg LP, Fixed Income and Derivatives Engineering | Engineering Representative
Bloomberg LP, Latinx in Tech | Member
Society of Hispanic Professional Engineers, Professional Chapter | Member