Ramon Gonzalez

2025-02-19

Download Resume (PDF)

Professional Summary

Dynamic technology executive with experience leading high-performance teams and driving strategic initiatives. Proven track record of optimizing technology operations, fostering cross-functional collaboration, and delivering solutions, particularly in the US Equities financial technology space. Seeking to leverage leadership and strategic vision in a Senior Engineering Manager, or similar role.

Professional Experience

Head of Technology Operations, IEX Group, Inc.

New York, NY

Nov 2019 – Present

- Spearheaded technology operations to support a high-performance stock exchange platform
- Led cross-functional teams to develop and implement strategic technology solutions, optimizing trading infrastructure and reducing latency.
- Coordinated various infrastructure and reliability engineering teams during the re-platforming and migration of a production data center for a live trading system.
- Fostered strong collaboration with Market Operations, aligning technology initiatives with business goals to enhance market integrity and

customer satisfaction.

- Re-organized operations focused and engineering teams to support increased working hours as well as new needs of the business
- Championed a culture of compliance, especially with regard to cyber-security.

Head of System Reliability Engineering, IEX Group, Inc.

New York, NY

Feb 2018 – Nov 2019

- Still an individual contributor on the SRE team
- Managed and oversaw the rest of the team

System Reliability Engineer, IEX Group, Inc.

New York, NY

May 2013 – Feb 2018

- Ensure all tasks related to the startup/shutdown and modifications of the system are completed.
- Participation in the design and build of system(s)
- Developing scripts/tools to monitor and automate processes
- Incident, escalation and re-mediation of incidents and problems related to the CORE Trading System and the Over Watch system
- Documenting and implementing current and future configuration processes and policies
- Meet customer needs and projected product utilization to operational reliability targets
- Estimating reliability parameters from field data, from lab data, from vendor data, and from other architectures and designs
- Reporting progress on attaining reliability targets to team and senior management
- Guiding other functions (e.g., R&D, quality, new products etc.) on reliability techniques and other parameters
- Educate and mentor team/company on reliability engineering best practices and ensures that reliability activities are integrated with the product development process

- Analysis of preliminary engineering design concepts and guide the design based on reliability input on product and software designs

Systems Administrator, East Rutherford Fire Department

New York, NY

Oct 2007 – May 2015

Responsible for the creation, management, optimization, and health of all the public safety networks and applications that were in use by the East Rutherford Fire Department. This included, but was not limited to, GIS software and hardware, windows/linux/mac os environments, sql databases, and mesh networking infrastructure.

Systems Reliability Engineer, NASDAQ

New York, NY

Sep 2009 – May 2013

- Startup and shutdown NASDAQ's core trade execution, order routing, reporting and clearing systems
- Real-time monitoring of all of NASDAQ's systems before/after/during a trading session.
- Provisioning and managing distribution of software across entire infrastructure
- Maintenance and allocation of all customer facing connections into trading systems
- Normal monitoring of host vitals as well as application functionality
- Coordinating requirements for solutions to business problems and assuring that the design of NASDAQ's Linux-based systems
- Uptime and responsiveness of all of NASDAQ's trading facilities.
- Configuration and maintenance of all production and testing facilities (mainly UNIX).
- Automation tools and procedures for starting and shutting down the NASDAQ systems that contain the equity and options
- Aiding core development members with rolling out and testing new code functionality in production systems

- Providing tier-3 support for internal teams and external clients that used any of NASDAQ's trading systems and products
- Supporting, troubleshooting, and engineering optimal low latency environments for NASDAQ and all of it other market centers
- Training new members of the operations team
- Automation framework for starting and stopping each of NASDAQ's trading facilities
- Building the PSX price-size trading platform
- Supporting proprietary application and industry standard protocols, such as FIX, NASDAQ routing strategies, and network behavior
- Latency analysis of HFT orders and NASDAQ products
- Moving NASDAQ trading environments to Infiniband Infrastructure and conversion of client facing systems to 10G Ethernet
- Migrating hardware and software environment from bare metal to virtualized environments
- Testing and analysis of kernel/os/networking changes for trading performance and lowered latency
- Rollout of kernel bypassing technology for a lower latency network stack

Database Administrator Intern, Prudential Financial

New York, NY

Jun 2008 – Aug 2008

- Updated and verified network topology and firewall rules and policies
- Prepared systems with Enterprise Linux to become R.A.Cs
- Assisted with day to day tasks to help the Oracle DBAs with maintenance of the database

Desktop Engineering and Support, Lehman Brothers

Jersey City, NJ

Jun 2006 – Sept 2006

- Provided desktop support to internal and external users of the company applications and resources
- Dealt with Windows, UNIX, Bloomberg, Blackberry's, RSA tokens, and other various network resources

Leadership & Strategic Impact

- Developed and mentored high-performance engineering teams, fostering a culture of innovation and continuous improvement.
- Defined and executed technology roadmaps.
- Collaborated with C-level executives to align technology investments with business objectives, enhancing competitive advantage.

Skills & Expertise

- Technology Strategy & Roadmap Development
- Cross-Functional Leadership & Team Building
- DevOps & Infrastructure Optimization
- Cybersecurity & Regulatory Compliance
- Stock Market Operations & Financial Technology
- Infrastructure as code
- DevOps practices
- Linux engineering
- Low-latency system and network engineering
- Performance tuning
- Capacity Planning
- Python
- Ansible
- BASH
- Working knowledge of go and rust

Education & Professional Development

New Jersey Institute of Technology

2005 - 2009

Bachelors of Science, Information Technology: Network Security

Professional Affiliations & Thought Leadership

- Member, [Relevant Industry Associations]
- Contributor, [Publications, Blogs, or Speaking Engagements]