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Profile: Nigel Dsouza – Architecting the Future of Cloud Innovation in American FinTech

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Nigel Dsouza is a Principal Software Engineer and Tech Lead at Fidelity Investments, where he is regarded as one of the most influential cloud engineers driving innovation in alternative investments and enterprise DevOps. Originally from Mumbai, India, Nigel moved to the United States in August 2019 with a dream to become part of the country’s technological heartbeat. That dream, backed by world-class skills, has become a reality. Today, his work powers mission-critical systems at one of America’s largest financial institutions—and he’s just getting started.

From STEM Scholar to Strategic Technologist

After earning his Master’s degree in Computer Science in May 2021, Nigel was quickly recognized for his exceptional skills in infrastructure automation and cloud-native engineering. He began his professional career in the U.S. as a Software Consultant for Capgemini, working on-site with Fidelity Investments. In a matter of months, he was leading critical aspects of infrastructure development, creating automated solutions that enhanced resilience, scalability, and developer productivity across teams.

His background in cloud computing, paired with deep expertise in AWS, Terraform, Java, and CI/CD systems, enabled him to deliver what others couldn’t: production-ready, event-driven architectures that could self-heal, recover from infrastructure failures, and enable massive deployment speed improvements. In one notable project, he reduced deployment pipeline times from 20 minutes to just 5—an innovation adopted widely across Fidelity’s agile squads.

An Unbreakable Spirit Amidst Visa Challenges

Despite his immense contributions, Nigel’s ability to stay in the U.S. was tested again and again. Fidelity wanted to hire him full-time, but as a non-citizen on F-1 STEM OPT, he was ineligible for direct employment under their policies. He entered the H-1B visa lottery four consecutive times. Each year, he was met with the crushing disappointment of not being selected in a system that accepts only 85,000 from a pool of over 400,000 applicants.

Undeterred, Nigel enrolled in a second Master’s program under Day 1 CPT to maintain lawful status. With Fidelity’s support, he transitioned through multiple vendors—Capgemini, Capco, and The Staffed 360 LLC—while maintaining continuous leadership on core projects. His value was so evident that Fidelity’s senior leadership and enterprise cloud teams fought to retain him, reworking contracts and allocating special resources to keep him on board.

Engineering Impact That Resonates Across Fidelity

Nigel led the infrastructure automation for Fidelity’s Alternative Investments platform—one of the firm’s top six enterprise initiatives. This platform gives American investors access to private markets through a streamlined, secure, and cloud-resilient experience.

Among his standout achievements:

- Developed and led the Disaster Recovery Automation system that eliminated manual deployment errors during Control-M infrastructure outages.
- Spearheaded Terraform migration and modularization, transforming Fidelity’s DevOps capabilities across multiple squads.
- Created reusable CI/CD utility pipelines, now standard across teams.
- Led the “Capital Call Workflow” development—an enterprise-wide solution for secure asset funding automation.

Respected by Peers, Trusted by Leaders

Nigel is known for his technical ability, humility, and collaborative spirit. His impact has been publicly recognized:

- Five Recognition Central awards from Fidelity Investments.
- Praise from senior engineering leadership, including: “you should have been an architect.”
- Letters of recommendation from Chapter Leads, Squad Leaders, and VPs recognizing him as “the most innovative and impactful developer we’ve worked with in the past three years.”

Looking Ahead: Cloud Innovation as a National Asset

Nigel’s vision is rooted in building scalable, secure, and intelligent infrastructure. He plans to lead modernization efforts in cloud systems, mentor engineers, and contribute to U.S. innovation in financial services, healthcare, and national security platforms.

Through his O-1A visa petition, Nigel seeks to continue this work at the highest levels. His story is a rare blend of extraordinary technical talent, leadership, and resilience that exemplifies the very best of global innovation in the American technology ecosystem.

Prepared as part of Nigel Dsouza’s O-1A visa petition portfolio