

Emilio Nguyen

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SUMMARY

Vice President of **Software Engineering** with eight years guiding **cloud-native architecture**, **data engineering**, AI-enabled services, and **React** applications within regulated financial environments. Leads distributed teams through platform modernization, architecture governance, secure delivery, and technical roadmap execution. Brings hands-on depth across AWS, Kubernetes, Terraform, Python, Java, TypeScript, React, Kafka, Snowflake, and PostgreSQL. Partners closely with product, data science, security, risk, and operations leaders, turning platform needs into dependable business outcomes. Motivated by opportunities where thoughtful engineering leadership improves customer experiences, strengthens data foundations, and helps engineers do their best work. Ready to contribute practical judgment, clear direction, and steady mentorship within a bank building modern digital capabilities.

EXPERIENCE

Vice President, Software Engineering

March 2023 - Present

Clearwater Financial Technologies

New York, NY

Direct a 34-person engineering organization delivering cloud-native data products, AI service foundations, and React workspaces for risk and treasury stakeholders. Own architecture standards, platform modernization, talent development, delivery governance, and production reliability across distributed teams.

- Directed 34 engineers across cloud-native data products, AI foundations, and React workspaces for financial stakeholders.
- Formed architecture council using **AWS**, **Kubernetes**, Terraform, and ADRs, standardizing service boundaries and deployment decisions.
- Moved analytical workloads into **Snowflake** and **Kafka** pipelines, improving model data access with lineage controls.
- Sponsored **Python** and **TypeScript** frameworks with CI/CD, testing, secrets management, and monitoring for product squads.
- Productionized AI scoring services with data science and model risk teams through validation gates and approvals.
- Mentored six engineering managers and technical leads through talent reviews, delivery metrics, and reliability commitments.

Senior Director of Engineering

July 2020 - February 2023

BlueHarbor Payments

Boston, MA

Led four cross-functional squads building payment analytics, merchant insights, and operations applications on AWS. Set engineering direction across Java, Python, React, Kubernetes, Terraform, data governance, security reviews, and delivery practices while preserving product ownership.

- Led four squads delivering payment analytics and merchant insights with AWS, **Java**, Python, React, and PostgreSQL.
- Reworked Kafka ingestion and schema governance, giving analysts consistent transaction data and clearer recovery procedures.
- Delivered **React** and **TypeScript** operations portal consolidating settlement exceptions, alerts, and merchant case context.
- Standardized Kubernetes deployments with **Terraform** modules and GitHub Actions across development, staging, and production.
- Resolved retention, encryption, and continuity requirements through architecture reviews with security, compliance, and reliability partners.
- Created design workshops and mentoring plans that improved senior engineer decisions across product teams.

Engineering Manager

September 2018 - June 2020

LatticePoint Analytics

Philadelphia, PA

Managed an eight-engineer team delivering cloud data products for institutional investment reporting and portfolio operations. Balanced product priorities with data quality, API delivery, team practices, production readiness, and stakeholder alignment.

- Managed eight engineers delivering cloud data products for investment reporting and portfolio operations.
- Migrated scheduled ETL into Python services and AWS processing, enabling more frequent portfolio reporting refreshes.
- Built React dashboard with TypeScript components, role-based access, and API drilldowns for operations teams.
- Added Snowflake quality checks covering schemas, duplicates, freshness alerts, and source reconciliation.
- Established sprint planning, peer review, test coverage, and runbooks for dependable incremental releases.
- Translated reporting needs into technical stories with product managers and analysts, reducing downstream rework.

Software Engineer

June 2018 - August 2018

Cedar Ridge Software

Princeton, NJ

Contributed to cloud migration and reporting initiatives within an Agile engineering team. Supported Java containerization, React interfaces, REST integrations, Python data utilities, automated testing, and Kubernetes readiness analysis.

- Converted Java services into containers for cloud migration, documenting dependencies for platform engineers.
- Built React components and REST integrations for a client reporting prototype used in stakeholder demonstrations.
- Created Python utilities for structured data loading and validation, giving analysts repeatable test fixtures.

- Added JUnit and Jest coverage, catching interface regressions before scheduled demonstration releases.
- Used Git, code review, and issue tracking for traceable Agile delivery across small product changes.
- Prepared architecture notes and Kubernetes demonstrations that informed future observability planning.

PROJECTS

Risk Data Fabric Modernization 📅 2025

Unified Kafka ingestion, Snowflake analytical storage, lineage controls, and Python services for risk reporting. Leadership gained cleaner model inputs and a clearer path from data discovery through governed production use.

Digital Treasury Operations Workspace 📅 2023

Created a React and TypeScript workspace connecting treasury workflows with alerts, service context, and API-backed reporting. Users gained faster access to operational decisions across a regulated financial environment.

LEADERSHIP & AWARDS

- Engineering Leadership Recognition, Clearwater Financial Technologies, 2025
- Operational Excellence Award, BlueHarbor Payments, 2022
- Stevens Institute of Technology Computer Science Department Award, 2018

EDUCATION

Bachelor's Degree in Computer Science

2018

Stevens Institute of Technology GPA: 3.8

Hoboken, NJ

Coursework: Cloud computing, data structures, software engineering, database systems, artificial intelligence

CERTIFICATIONS

- AWS Certified Solutions Architect - Associate 📅 2021
- Certified Kubernetes Administrator (CKA) 📅 2023
- Google Professional Cloud Architect 📅 2024

TECHNICAL SKILLS

- **Cloud Platforms:** AWS, Google Cloud, Amazon EKS
- **Container Platforms:** Kubernetes, Docker, Helm
- **Infrastructure as Code:** Terraform, CloudFormation, AWS CDK
- **Programming Languages:** Python, Java, TypeScript
- **Frontend Development:** React, TypeScript, Jest
- **Data Platforms:** Snowflake, PostgreSQL, Amazon S3
- **Streaming Systems:** Kafka, Kafka Connect, Schema Registry
- **API Development:** REST APIs, GraphQL, OpenAPI
- **Delivery Automation:** GitHub Actions, CI/CD, Git
- **Observability Tools:** Prometheus, Grafana, CloudWatch
- **AI Service Delivery:** Model validation, feature versioning, monitoring
- **Architecture Governance:** ADRs, service boundaries, design reviews

SKILLS

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|----------------------|--------------|--------------------------|---------------------------|
| • Cloud Architecture | • Python | • Kafka | • CI/CD |
| • AWS | • Java | • Snowflake | • Technical Roadmaps |
| • Kubernetes | • TypeScript | • Data Engineering | • Architecture Governance |
| • Terraform | • React | • AI/ML Service Delivery | |

PROFESSIONAL AFFILIATIONS

- Mentor, Women Who Code New York Engineering Leadership Program, 2024 - Present
- Volunteer Coach, CodePath Technical Interview Preparation, 2022 - 2024
- Member, Cloud Native Computing Foundation Community, 2021 - Present

LANGUAGES

- English (Native)
- Vietnamese (Proficient)

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST