

Michael Vincent

Remote Platform & Payments Infrastructure Engineer

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Education

The University of Texas at Tyler, Master of Science, Industrial Engineering, December 2015
The Pennsylvania State University, Bachelor of Science, Linguistics, December 2011
The Pennsylvania State University, Bachelor of Arts, Journalism, December 2011

Profile

Engineer for platform infrastructure, vector AI search, Kubernetes delivery, and security controls in regulated environments. Work includes Capital One, Discover, Zelle, LA Metro TAP, Fannie Mae CU2, and Lockheed Martin programs.

Brands

Capital One & Discover Vector AI Search Platform	Zelle Payments Network Integration	LA Metro TAP Fare Payments Program
WMATA Fare Collection Program	NYC MTA Fare Collection Program	BART Fare Collection Program
MBTA Fare Collection Program	Fannie Mae CU2 Collateral Underwriter 2	Freddie Mac Mortgage Program Work
Lockheed Martin Intranet Program	Canadian Tire Hybris E-Commerce Platform	Poison.org iOS App Web App
New York Fashion Week iOS, Android, Web App	USCCB Catholic Bishops App	CM/ECF Java Swing UI.
PACER Federal Court Access Program	HUD CNA e-Tool Housing Assessment Tool	Chicago Metro AI Chatbot for Call Center

Experience

Senior Software Engineer, Payments Infrastructure

PricewaterhouseCoopers (PwC), Los Angeles, California, United States
September 2024 to Present

Founding team building vector AI search infrastructure for Capital One and Discover.

- Built vector AI search platform on AWS EKS with Go APIs for Capital One and Discover.
- Led Go API delivery for licensing, authentication, partner onboarding, and access control.
- Built and operated multi-cloud Kubernetes deployments in AWS EKS and Azure AKS with Docker and Helm.
- Implemented OpenTelemetry tracing and runbooks for incident response and production handoff.

Software Engineering Manager, Infrastructure

Cubic Transportation Systems, San Diego, California, United States

October 2021 to April 2024

Led infrastructure teams for back-office fare collection programs across WMATA, NYC MTA, BART, LA Metro, and MBTA.

- Owned platform delivery with Terraform, AWS, and GitHub Actions for transit fare services.
- Led LA Metro TAP payment backend networking and onsite server and network operations.
- Built AI chatbot integrations for Chicago Metro call center workflows.
- Standardized Kubernetes and service-mesh security patterns with Istio.

Lead Senior Software Engineer

Cubic Transportation Systems, San Diego, California, United States

October 2019 to October 2021

Led platform modernization initiatives across fare and rider services.

- Delivered cloud-native services for rider account and support workflows.
- Built CI and release workflows with Jenkins, Docker, Helm, Vault, and Terraform.
- Shipped serverless integration paths with AWS Lambda and Azure Functions.

Senior Software Engineer

Cubic Transportation Systems, Washington, D.C., United States

May 2017 to October 2019

First DevOps engineer for fare collection platforms moving from legacy infrastructure to containers and cloud.

- Introduced Terraform, Kubernetes, and Docker delivery standards across engineering teams.
- Built monitoring and alerting workflows with Prometheus and Grafana.
- Supported controls and evidence preparation for PCI, SOC, ISO, and SOX audits.

Senior Software Engineer, Infrastructure

EPAM Systems, Washington, D.C., United States

May 2016 to April 2017

Senior engineer for enterprise and government client platforms in regulated domains.

- Built Fannie Mae CU2 (Collateral Underwriter 2) Angular workflows for mortgage lender operations.
- Built Lockheed Martin intranet experiences on decoupled Drupal.
- Built CM/ECF Java Swing UI workflows for federal court case operations.
- Supported federal and housing platform delivery in regulated environments.

Software Engineer

EPAM Systems, Washington, D.C., United States

May 2015 to April 2016

Full-stack engineer for mobile and commerce delivery engagements.

- Built Canadian Tire Hybris e-commerce features and integrations.
- Built Poison Control Sitecore features and hybrid mobile apps for Android and iOS.
- Built New York Fashion Week mobile and web experiences with iOS, Android, and decoupled Drupal.
- Built hybrid mobile app features for the United States Conference of Catholic Bishops.

Projects

Io Pictures Corporation

January 2022 to Present

Fractional CTO building internal software systems for rights, inventory, vendor accounts, payments, and digital distribution.

- Built rights, clearance, and inventory database for title metadata, chain of title, private holdings, territory windows, and delivery requirements.
- Built authentication, vendor account, and ledger workflows for acquisitions, payments, royalty tracking, and distributor settlements.
- Built search, storage, and digital distribution tooling for title lookup, asset tracking, metadata packaging, QC, and submission to Tubi, Amazon, Apple, and Google.

The Archive of American Radio, Inc.

June 2025 to Present

Founded California public benefit nonprofit and built the world's largest, most complete collection of historical radio broadcasts and sound recordings.

- Built data processing pipelines and Cloudflare Workers APIs.
- Built storage and catalog workflows with Cloudflare services, Turso, and Supabase.
- Developed AI-assisted metadata extraction and search tooling.

Quark's Outlines

September 2024 to Present

Publish a long-running Python series on DEV with practical explanations and clear examples.

Skills

Platform & Cloud: AWS, Azure, Google Cloud Platform, Kubernetes, Docker, EKS, AKS, GKE, Helm, Terraform, GitHub Actions, Jenkins, ArgoCD

Payments & Security: Tokenization, OAuth2, JWT, Vault, mTLS, Istio, cert-manager, PCI-DSS, SOC, SOX, ISO, Zero Trust

Observability & Operations: OpenTelemetry, Prometheus, Grafana, Datadog, PagerDuty, incident response, runbooks

Languages: Go, Python, JavaScript/TypeScript, Java, SQL, Bash, Rust

Data & Storage: PostgreSQL, MySQL, MongoDB, Redis, Kafka, Turso, Cloudflare D1, Supabase, DynamoDB, S3, R2, Azure Blob