

Kevin Lewis

Technical Delivery Manager

Focused on AI Strategy, Ethical Governance, & Cloud Ops

kalewis5331@gmail.com | kalewis5331.com | linkedin.com/in/kalewis5331/

LEADERSHIP SUMMARY

Strategic technology leader with hands-on experience guiding engineering teams, coordinating delivery across complex initiatives, and modernizing cloud infrastructure. Known for blending technical judgment with pragmatic delivery leadership—mentoring engineers, aligning stakeholders, and owning CI/CD and infrastructure automation in regulated environments.

Brings a delivery-first, cost-aware approach to system design, AWS automation, and responsible AI, improving deployment speed, cost visibility, and system reliability across both commercial and government platforms. Currently building and shipping evidence-bound GenAI systems, including RAG-based assistants designed with explicit guardrails, cost controls, and ethical boundaries.

EXPERIENCE

Vibrantech Solutions Inc. — *Technical Delivery Manager*

MAY 2024 - PRESENT

- Applied AI ethics principles, including NIST RMF and OECD guidelines, to internal projects to help assess algorithmic risk and support responsible design decisions.
- Led cross-functional teams across frontend, backend, DevOps, and product to deliver secure AWS GovCloud systems aligned with stakeholder needs and regulatory constraints.
- Directed cloud-native deployments through CI/CD pipelines in AWS GovCloud, significantly improving deployment speed and delivery reliability.
- Designed and implemented infrastructure-as-code using CloudFormation to support repeatable, scalable deployments across multiple environments.
- Took a cost-aware approach to system design by forecasting usage, monitoring spend, and implementing alerts using AWS Billing tools, Cost Explorer, and the Pricing Calculator to prevent unexpected charges.
- Built dashboards and automated monitoring (including Lambda usage alerts) to improve cost visibility and inform delivery and architectural tradeoffs.
- Supported React frontend and Java backend systems behind AWS API Gateway, working closely with engineers to remove delivery blockers and streamline releases.
- Incorporated responsible AI considerations into system design and delivery planning, applying NIST RMF and OECD principles to assess risk, define guardrails, and inform architectural decisions.

NU Borders — *Director of Platforms*

AUGUST 2019 - DECEMBER 2023

- Managed and mentored 8–12 engineers across backend, frontend, and DevOps, providing direction on architecture, delivery priorities, and execution across multiple teams.
- Defined technical and product direction for government and commercial platforms, aligning engineering, product, and security stakeholders to deliver high-visibility work on schedule.
- Owned CI/CD architecture during DevOps leadership transitions, designing and maintaining reliable deployment pipelines using infrastructure-as-code and automated delivery patterns.
- Improved engineering effectiveness through clearer sprint planning, delivery discipline, and dependency management, significantly increasing team throughput and predictability.

SKILLS

Delivery & Ways of Working

Agile delivery, cross-functional team leadership, cost-aware system planning, stakeholder alignment, delivery prioritization. Leveraged Jira, Confluence, GitHub Projects, Notion.

Cloud & Platform Engineering

AWS (EC2, ECS, S3, Lambda, API Gateway, Cognito, CloudFormation / Infrastructure as Code, Cost Explorer, Billing dashboards) CI/CD pipelines, AWS GovCloud, Docker, CloudWatch, CircleCI.

Languages & Frameworks

TypeScript, Java, Python, JavaScript, React, Node.js, MongoDB, PostgreSQL

Certifications

AWS Certified Developer – Associate (Expired 2021)

Spoken Languages

English (Native), Spanish (Conversational), Japanese (Conversational)

PROJECTS

GenAI Portfolio Assistant (RAG-Based) – Built a recruiter-facing GenAI assistant using retrieval-augmented generation over curated, evidence-bound sources (resume, case studies, project data). Designed explicit guardrails to prevent unsupported claims, manage cost and usage, and enforce safe refusals and fallbacks.

AI Ethics & Governance (xAI's Grok Case Study) – Authored an independent ethics and risk assessment of xAI's Grok chatbot, applying NIST AI RMF and OECD principles to identify key risks and propose mitigations such as red-teaming, moderation controls, and transparency measures.

OtaskuAI Recommender (Exploratory) – Prototyped an anime recommendation system to explore cost-aware AI delivery tradeoffs, comparing serverless and persistent inference approaches (AWS Lambda vs SageMaker) and deploying via CLI and infrastructure-as-code.

EDUCATION

Pennsylvania State University, B.S., Information Science and Technology, 2013