

AMANDA LANE

Product-Minded Engineering Leader | AI Integrations & Platform Strategy

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SUMMARY

Technical leader and full-stack engineer with 6+ years of experience, from individual contributor to Chief Engineer. Comfortable moving between building integrations, leading cross-functional delivery, and turning strategy into shipped, measurable outcomes. Background sits at a unique intersection of product and engineering: running discovery with customers, translating ambiguous problems into scoped work, defining success metrics, and building the AI-powered features and internal tools that reduce friction, improve user experience, and support customer objectives. Looking for a role centered on building features that make complicated systems easier for the people who use them.

EXPERIENCE

Pathify Jan 2026 – Aug 2026

Chief Engineer, Integrations

- Owned an AI agent chatbot initiative end-to-end. Identifying which capabilities mattered most to users through scoping and technical execution. Connecting our platform to Canvas and Microsoft APIs for real-time course, assignment, and advisor data, plus write-back for submissions and appointment booking.
- Identified a cost and compliance risk early (Instructure's move to usage-based Canvas API pricing). Scoped and built a caching strategy plus GCloud-based usage dashboards. Resulted in a 40% projected cost reduction across 160+ customers.
- Built an internal AI-powered developer tool that scaffolds boilerplate and accelerates how the team ships integrations. Identified the workflow gap, defined the tool's scope, and led its build.
- Defined and tracked engineering KPIs using a custom GitHub GraphQL data pipeline; used the metrics to build a coaching framework for the team.
- Led hiring and onboarding for the developer and QA teams, translating org needs into role definitions and interview processes; multiple hires went on to earn promotions.
- Oversaw two engineering teams spanning the full integrations stack: the standard recipe catalog and the underlying infrastructure engine.

Pathify 2023 – 2025

Chief Engineer, Recipes

- Took Pathify's standard integrations offering from concept to self-service product. Led a team of 4 engineers to build a catalog of pre-built "recipes" spanning major SIS/LMS platforms (Canvas, Banner, Workday, Salesforce, and others), turning what had been one-off custom implementations into a repeatable, scalable product.
- Partnered directly with Product to plan sprints across multiple teams and shape the roadmap based on customer and engineering input.
- Designed the CI/CD deployment strategy hosting a web component library, recipe catalog, and documentation sites.

Pathify 2020 – 2023

Junior Developer

- Ran discovery directly with institutional clients to understand their technical and workflow needs, then delivered hands-on implementation. Early exposure to the full arc from customer problem to shipped solution.
- Identified the need for and built the company's support infrastructure from scratch, designing workflows and leading a team of Implementation Consultants.

Lambda School 2019 – 2020

Section Lead

- Guided 250 students through a 6-month full-stack program and managed 15 Team Leads coordinating curriculum delivery and career development.
- Identified a gap in student support and designed the intervention process used to catch students at risk of falling behind.

SKILLS

Product & Strategy: Discovery & customer validation, translating ambiguity into scoped work, roadmap & sprint planning, KPI/metrics design, cross-functional leadership, hiring & coaching

Technical Execution: HTML, CSS, JavaScript, Python, REST, SOAP, GraphQL, OAuth (2LO/3LO), AI-agent-assisted development, Kubernetes/Docker CI-CD

Domain: Higher-ed SIS/LMS ecosystems: Canvas, Blackboard, Moodle, D2L, Ellucian (Banner, Ethos, Colleague), Anthology, Involve, CampusLabs Engage, CBORD, Slate, Jenzabar, Workday, PeopleSoft, Salesforce