Simon Lamb

Principal AI/Software Engineer | GenAI/RAG, LLMOps, SRE

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PROFESSIONAL SUMMARY

I build production GenAI platforms on Microsoft Azure with DevOps leadership from the ground up. Recently focused on LLM platform engineering at Microsoft Azure Core, delivering AI systems with full LLMOps/MLOps rigor—CI/CD, evaluation pipelines, guardrails, observability, and cost/latency governance.

Engineered platforms applying Azure OpenAI + agentic retrieval to analyze Microsoft product codebases, automatically surfacing security, performance, and best-practice risks. Designed token-aware batching, caching, and aggregation strategies for processing thousands of lines of code cost-effectively.

CORE TECHNICAL STACK

AI/ML & GenAI

Azure OpenAI, RAG (vector/hybrid), Semantic Kernel, LangChain, Azure AI Search, Token Optimization, Structured Outputs, Liquid Templates, MLflow, Databricks

Cloud & Infrastructure

Azure (AKS, App Services, Front Door), Bicep/Terraform, GitOps (Flux/Argo), Docker/Kubernetes, Azure Policy, Managed Identity

DevOps & SRE

CI/CD, GitHub Actions, Azure DevOps, SLO/SLI Monitoring, Error Budgets, Blue/Green Deployments, Observability (Grafana/Prometheus)

Languages & Frameworks

Python, C#/.NET, TypeScript, React, SQL, PowerShell, Bash

PROFESSIONAL EXPERIENCE

Senior Software Engineer   Apr 2024 - Jul 2025

Microsoft - Azure Core

- Engineered LLM-driven governance platform analyzing internal Microsoft product codebases to surface security, performance, and best-practice risks before rollout, reducing deployment incidents
- Innovated structured outputs layer with Liquid templates, guaranteeing hallucination-free reports with 100% UX alignment
- Optimized large code context analysis (1000s of lines) through token-aware batching, caching, and aggregation strategies
- Embedded automatic + human-in-the-loop evaluation gates, enabling safe prompt iteration across multiple developers

Azure OpenAI   RAG/Vector Search   LLMOps   Structured Outputs   Python   C#

Cloud Solution Architect   Jul 2019 - Apr 2024

Microsoft - Global Partner Solutions

- Partnered with enterprises and ISVs to modernize workloads on Azure, accelerating GenAI adoption through workshops and proof-of-concepts, reducing prototype-to-production from months to weeks
- Delivered hands-on enablement for Databricks, MLflow, and Semantic Kernel implementations
- Strengthened partner delivery quality by embedding DevOps/DevSecOps practices at scale
- Influenced engineering teams through architectural workshops and design reviews

Azure OpenAI   Databricks   MLflow   AKS   Bicep/Terraform   GitOps

DevOps OpenHack Tech Lead (Part-time)
Jun 2019 - Sep 2021

Microsoft

Led global DevOps OpenHacks in Melbourne, Sydney (Satya Nadella's ANZ visit), Canberra, Las Vegas (Inspire/Ready), and Seattle (TechReady). Directed coaching teams of 10+ engineers, mentoring hundreds of attendees from partners including ANZ, Deloitte, EY, KPMG, Accenture, PwC. Achieved ~95% satisfaction scores.

Technical Evangelist
Feb 2017 - Jul 2019

Microsoft - Developer Experience

Evangelized Microsoft development technologies through technical content, conference presentations, and architectural guidance. Recognized as primary DevOps SME, supporting enterprise customers in transformation journeys.

Tech Architect Lead / DevOps Lead
Jun 2004 - Feb 2017

Fred IT Group

- Led team of 6 engineers delivering pharmacy dispensing platform for major pharmacy groups
- Built on .NET, SQL Server, Dynamics AX optimized for clinical-grade reliability
- Implemented SRE practices (SLO/SLI monitoring, error budgets) and blue/green deployments
- Modernized DevOps with Azure DevOps + IaC, implementing PBS compliance pipelines

C#/.NET   SQL Server   Dynamics AX   Azure DevOps   IaC   SRE

KEY PROJECTS

LLM-Driven Governance Platform - Microsoft Azure Core

Engineered platform analyzing internal codebases with Azure OpenAI + RAG to surface risks before deployment. Implemented token-aware batching for multi-chunk evaluation, structured outputs with Liquid templates, and human-in-the-loop evaluation gates.

DevOps OpenHack Program Leadership

Led Microsoft's global DevOps OpenHack program across 5+ cities including events during Satya Nadella's visit. Mentored 100s of engineers from major partners, achieving 95%+ satisfaction scores.

Healthcare Platform - Fred IT Group

Architected pharmacy dispensing platform with clinical-grade reliability. Implemented SRE practices, blue/green deployments, and PBS compliance pipelines serving major pharmacy chains.

EDUCATION

Wesley College, Melbourne
1992 - 1994