

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

Jul 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
- Developed Azure DevOps extensions using React.js with the Azure DevOps Extension SDK to display governance outputs at massive scale across Microsoft's global build platform
- 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# React Azure DevOps Extensions

Senior Software Engineer

Apr 2024 - Jul 2024

Microsoft - Microsoft Cloud for Industry

- Built comprehensive framework optimizing onboarding of Industry Solutions within the Microsoft Fabric portal, providing packaged resources for retail, manufacturing, and healthcare verticals
- Developed solution accelerators using React.js leveraging .NET APIs, integrating directly with Microsoft Fabric backend
- Engineered following Microsoft's strict Engineering System guidelines for scale, performance, security, and best practices

React TypeScript .NET Microsoft Fabric Azure DevOps

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 Engineering

Engineered platform analyzing internal Microsoft product codebases with Azure OpenAI + RAG to surface security, performance, and best-practice risks before deployment. Implemented token-aware batching for multi-chunk evaluation, structured outputs with Liquid templates, and human-in-the-loop evaluation gates. Platform now fundamental to all internal Microsoft product deployments for incident reduction and enterprise risk management.

Azure DevOps Governance Extensions - Microsoft Engineering

Developed React.js-based Azure DevOps Extensions using the Azure DevOps Extension SDK to display LLM-driven governance outputs at massive scale. Extensions integrated seamlessly with all builds and pull requests performed by Microsoft product teams worldwide, providing real-time governance insights and security risk analysis. Engineered for extreme performance to handle thousands of concurrent builds.

Microsoft Fabric Industry Solutions - Microsoft Engineering

Built comprehensive framework within Fabric portal optimizing onboarding of Industry Solutions, providing packaged resources for retail, manufacturing, and healthcare. Engineered following Microsoft's strict Engineering System guidelines for scale, performance, and security. Built with React, TypeScript, C#, and .NET.

DevOps OpenHack Program Leadership

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

Regulated Healthcare Platform - Fred IT Group

Led team of 6 engineers to architect pharmacy dispensing platform with clinical-grade reliability. Implemented SRE practices (SLO/SLI monitoring, error budgets), blue/green deployments, and PBS compliance pipelines serving major pharmacy chains.

EDUCATION

Wesley College, Melbourne

1992 - 1994