Simon Lamb

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

Melbourne, Australia
https://simonlamb.codes
me@simonlamb.codes
linkedin.com/in/slamb2k
github.com/slamb2k

SUMMARY

- Production GenAI platform engineer with full-stack expertise delivering LLMOps/MLOps systems on Microsoft Azure
- Expert in Azure OpenAI, RAG pipelines, Semantic Kernel, and agentic AI architectures with proven impact at Microsoft Azure Core
- Strategic leader transforming technical vision into tactical initiatives across global teams and Fortune 500 partners
- DevOps/SRE practitioner embedding CI/CD, observability, and reliability practices that minimize risk while maximizing performance

CORE COMPETENCIES

- GenAI/LLM Platform Engineering
- Azure OpenAI & RAG Systems
- LLMOps/MLOps Pipelines
- Semantic Kernel & LangChain
- Python & C#/.NET Development
- React & TypeScript
- Azure Cloud Architecture
- Kubernetes & Container Orchestration
- DevOps & CI/CD
- SRE & Observability
- Strategic Transformation Lead
- Program Development & Execution
- Team Building & Technical Coaching

EDUCATION

Wesley College
Melbourne, Australia
1992 - 1994

PROFESSIONAL EXPERIENCE

Jul 2024 - Jul 2025

Senior Software Engineer

Microsoft Engineering - Azure Core

- Built production LLM-driven governance platform using Semantic Kernel in C# with Azure OpenAI to analyze millions of lines of internal Microsoft product code, automatically surfacing security vulnerabilities, performance bottlenecks, and best-practice violations before deployment
- Architected agentic RAG pipeline with Azure AI Search (vector + hybrid search), implementing sub-query decomposition, parallel execution, re-ranking, and structured outputs with citations for grounding
- Developed enterprise-scale Azure DevOps extensions using React with TypeScript leveraging the Azure DevOps Extension SDK for Build, PR, and Dashboard integration, serving thousands of developers across Microsoft
- Engineered deterministic output system using OpenAI Structured Outputs and Liquid templating with JSON Schema validation, eliminating hallucination in governance reports

Azure OpenAI | RAG/Vector Search | LLMOps/MLOps | Semantic Kernel | C# | Python | React | TypeScript

Apr 2024 - Jul 2024

Senior Software Engineer

Microsoft Engineering - Microsoft Cloud

- Architected full-stack solution accelerator framework for Microsoft Fabric Industry Solutions using React with TypeScript frontend and ASP.NET Core backend microservices, delivering domain-specific data pipeline accelerators
- Implemented domain-driven design patterns with CQRS and Event Sourcing for data pipeline orchestration, enabling enterprise customers to reduce time-to-value from months to weeks
- Built observability stack with Application Insights custom metrics and distributed tracing with correlation IDs across service boundaries

React | TypeScript | .NET | Microsoft Fabric | Azure DevOps

Jun 2019 - Sep 2021

DevOps OpenHack Tech Lead (Part-time)

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.

CI/CD | IaC | SRE | GitHub Actions | Azure DevOps

Jul 2019 - Apr 2024

Cloud Solution Architect

Microsoft - Global Partner Solutions

- Partnered with enterprises and ISVs including ANZ, Telstra, NSW Health, CBA, Deloitte, EY, KPMG, Accenture, PwC to modernize workloads onto Azure and accelerate GenAI adoption using Databricks, MLflow, and Semantic Kernel
- Led DevOps OpenHack programs globally in Melbourne, Sydney (during Satya Nadella's ANZ visit), Canberra, Las Vegas (Inspire/Ready), and Seattle (TechReady), achieving ~95% participant satisfaction scores
- Embedded DevOps and DevSecOps best practices at scale, establishing CI/CD pipelines, IaC standards, and SRE practices that improved deployment frequency and reduced MTTR

Azure OpenAI | Databricks | MLflow | Semantic Kernel | AKS | Bicep/Terraform

Feb 2017 - Jul 2019

Technical Evangelist

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.

C# | ASP.NET | JavaScript | Azure | DevOps

Jun 2004 - Feb 2017

Tech Architect Lead / DevOps Lead

Fred IT Group

- Led team of 6 engineers architecting regulated healthcare platforms for pharmacy dispensing serving major Australian pharmacy chains including Chemist Warehouse, Terry White Chemmart
- Built mission-critical applications with 99.9% uptime SLO serving thousands of pharmacy locations processing millions of prescriptions annually
- Implemented comprehensive SRE practices including SLO/SLI monitoring, error budgets, and incident response playbooks

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

KEY PROJECTS

<> LLM-Driven Governance Platform - Microsoft Engineering

Architected production-scale AI governance platform using Semantic Kernel in C# with Azure OpenAI models and Azure AI Search (vector + hybrid) for analyzing internal Microsoft product codebases. Implemented sub query decomposition, agentic parallel execution, and structured output responses with citations.

<> Azure DevOps Governance Extensions - Microsoft Engineering

Built enterprise-scale Azure DevOps extensions using React with TypeScript, leveraging the Azure DevOps Extension SDK for Build, PR, and Dashboard integration. Architected using Flux pattern with Redux Toolkit for predictable state management.

<> Microsoft Fabric Industry Solutions - Microsoft Engineering

Architected full-stack solution accelerator framework using React + TypeScript frontend with ASP.NET Core backend microservices. Implemented domain-driven design patterns with CQRS and Event Sourcing for data pipeline orchestration.

<> 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.

Visit https://simonlamb.codes for more detailed project information