Liam Wood

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EXPERIENCE

Microsoft   *July 2022 – Present*
Software Engineer II — Infrastructure & Scale, Notifications Service (promoted year-over-year)

- Own reliability and global operations of the **OneDrive/SharePoint Notifications Service** — **6B+ events/month** across **M365, Teams, Viva, Whiteboard**, and dozens of Microsoft products; globally deployed to every geo on AKS.
- Led full platform migration: **Azure Cloud Services → Service Fabric → AKS** without a single dropped message; halved compute footprint, saving **$750K annually**; implemented **CPU-based KEDA autoscaling** that handled live-site traffic-spike incidents.
- Moved from slot-based to **in-place deployments** via custom **ADO YAML hotfix pipeline**; cut average deployment latency from **30+ days to under 10 days** while maintaining global safe deployment practices across all geos.
- Designed **BCDR automatic failover** using Azure FrontDoor **weighted endpoints and health checks**; maintained **99.99% availability**; migrated certs to **autorotation with SNI auth** and implemented **KeyVault**-based encryption for Service Bus messages.
- First to ship **heuristic-based spam blocks** on the policy engine; blocked **tens of millions of spam events** with zero impact to live traffic.

Visa   *October 2020 – July 2022*
Senior Software Engineer — Clearing & Settlement Infrastructure (promoted in 1.25 years)

- Redesigned **settlement management system in C++**, communicating in real time globally between **IBM z/OS mainframes**; complete technical ownership from design through implementation with no oversight.
- Developed **C++ prototype** for streaming transactional data from IBM z/OS to Linux via **Kafka**; pioneered **git adoption on the mainframe** using Broadcom Git Bridge; built QA tooling and test infrastructure for settlement systems.

Digital Worlds Institute — University of Florida   *August 2019 – February 2020*
Software Developer

- Sole developer of a blockchain + AR web card game: **Node.js** backend, Vue.js frontend, SQLite — blockchain for public reward records, AR for in-game asset display.

EDUCATION

University of Florida   *August 2016 – May 2020*
B.S. Computer Science

SKILLS

Languages	C++, Python, C#/.NET, Node.js, JavaScript
Infrastructure	AKS, Kubernetes, KEDA, Azure FrontDoor, Azure Service Fabric, Azure KeyVault, Azure DevOps, Terraform, Helm
Distributed Systems	High-scale event processing, message encryption, multi-region failover, BCDR, queue-based scheduling, Kafka
Reliability	99.99% availability, cert autorotation (SNI), secret management, in-place deployments, SLOs, on-call, incident response