Liam Wood

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EXPERIENCE

Microsoft   *July 2022 – Present*
Software Engineer II — Platform Infrastructure

- Own design and end-to-end reliability of distributed event-processing infrastructure handling **6B+ events/month** across OneDrive and SharePoint, spanning dozens of interdependent services on Linux-hosted **AKS clusters**.
- Architected **KEDA-driven autoscaling** tied to real-time queue depth and traffic patterns, eliminating over-provisioning waste and reducing tail latency (**$500k–$750k annual cost savings**).
- Owned **CI/CD pipelines** (Azure DevOps, Git) and progressive rollout tooling, improving release cadence from 6-week cycles to **weekly deployments** with integrated smoke testing and automated rollback.
- Led full **AKS migration** and deployment re-architecture — rebuilt infra-as-code pipelines and cluster provisioning to support safe, repeatable deployments at scale.
- Designed **multi-region failover** architecture using Azure FrontDoor and Traffic Manager; maintained **99.99% availability** under continuous global load with automated BCDR failover runbooks.
- Built and maintained **process state observability** systems and incident dashboards; collaborated with SRE teams to define alerting thresholds, runbooks, and on-call escalation paths.
- Collaborated with partner engineering teams worldwide to safely enable new customer-facing features through design, testing, and staged rollout.
- Promoted twice in 3 years for technical leadership across reliability, cost optimization, and deployment safety.

Visa   *October 2020 – July 2022*
Senior Software Engineer — Clearing & Settlement Infrastructure

- Designed and implemented **state-machine–driven settlement engine components** in Python and C++, processing **trillions in annual transaction volume** across distributed financial infrastructure.
- Engineered distributed systems requiring **fault-tolerant, exactly-once processing** under concurrent load; built early real-time transaction observability pipelines.
- Operated within a strict **Linux-based production environment**; diagnosed and resolved complex distributed failures with direct financial impact under time pressure.

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

- Sole developer for a browser-based AR platform; built a **Node.js backend** with Redis pub/sub managing **100+ concurrent WebSocket connections** and real-time distributed state synchronization.

EDUCATION

University of Florida   *August 2018 – May 2022*
B.S. Computer Science

Vice President, GatorVR — led technical workshops and mentored students in VR/AR development and CS fundamentals.

SKILLS

Languages	C++, Python, C#/.NET, Node.js, JavaScript
Infrastructure	Linux (AKS/bare-metal), Kubernetes, KEDA, Azure FrontDoor, Azure DevOps, BCDR Planning
Distributed Systems	High-scale event processing (6B+ events/month), multi-region failover, fault-tolerant state machines, queue-based scheduling
CI/CD & Tooling	Azure DevOps, Git, progressive rollout, automated rollback, smoke testing, integration & regression testing
Observability	Process state monitoring, alerting design, incident response, SRE collaboration