



## Professional Summary

Software Engineer (4+ years @ Microsoft) specializing in distributed systems, cloud reliability, and enterprise security. Proven ability to design and scale high-availability systems for 10M+ users, mitigate multimillion-dollar risks, and deliver resilient solutions under pressure. Expert in balancing scalability, compliance, and performance trade-offs, with a strong record of architecting solutions that drive enterprise reliability. Passionate about AI/ML infrastructure, privacy-preserving data systems, and resilient cloud-native identity solutions.

## Core Skills

**Distributed Systems & Cloud:** Azure Hybrid Identity, High-Availability Services, Distributed APIs

**Security & Compliance:** Secure System Design, Threat Modeling, Privacy Compliance, Penetration Testing Remediation, GDPR Compliance

**Programming & Development:** Java, C#, Kotlin, Python, JavaScript/TypeScript, NodeJS, VueJS, Svelte, React

**Data & ML:** KQL, SQL, MongoDB, Elasticsearch, Redis, Neo4j, PyTorch, TensorFlow

## Experience

Microsoft, Redmond, Washington

June 2021-Current

*Software Engineer*

**Team:** Azure Hybrid Identity

- **Led crisis response** for a global outage impacting 2M+ users, designing and deploying a distributed datetime handling strategy adopted service-wide.
- **Restored mission-critical provisioning pipeline** for a Fortune 1 retailer (1.5M+ employees) in 24h by architecting fault-tolerant system with proactive monitoring, detecting previously invisible tenant issues.
- **Designed and shipped gateway security mechanism** eliminating a class of attack vectors, mitigating \$10M+ enterprise risk.
- **Drove system-wide improvements** through BCDR, SDL, and Threat Modeling reviews across Azure Hybrid Identity.
- **Implemented GDPR-compliant logging** that preserved diagnostic depth while ensuring privacy compliance across services.
- **Modernized password generation system** implementing automated generation with enhanced entropy, improving credential security for Fortune 500 clients.
- **Authored technical documentation**, hosted deep-dive presentations, and mentored peers on complex edge cases.
- **Designed algorithmic solution** resolving multi-year API exception affecting Fortune 500 provisioning pipelines.

Blackboard, Indianapolis, Indiana

June 2020-August 2020

*Full-Stack Software Engineer Intern*

- **Optimized education platform performance** for Blackboard Ultra UI serving 5M+ students during global remote learning transition, implementing advanced frontend state management and performance tuning techniques that measurably improved accessibility and user engagement.
- **Resolved critical European compliance bug** for international release, ensuring adherence to regional data handling requirements through systematic debugging and validation.

Doxpop, Richmond, Indiana

June 2019-August 2019

*Full-Stack Software Engineer Intern*

- Migrated statewide court information systems to VueJS, significantly improving performance and enabling scalable component-based architecture for legal professionals.

## Education

**Bachelor of Science, Major in Computer Science, Minor in Economics**

May 2021

Rose-Hulman Institute of Technology, Terre Haute, IN

## Relevant Coursework

Machine Learning, Artificial Intelligence, Design and Analysis of Algorithms, Computer Security, Operating Systems