KIRAN KANNUR

Software Engineer 2

✉ kiran.kannur72@gmail.com • 📞 +91-9036065010 • 📍 Bengaluru, India • Github • in LinkedIn

EXPERIENCE

Software Engineer 2 at Fortanix   Jan 2025 - Present

Implemented a backend service that automated the entire device lifecycle from quote generation through PPID retrieval, cryptographic signing, platform manifest generation, and remote attestation reducing production verification time by 85% while ensuring tamper-proof chain of custody for all manufactured appliances

Software Engineer 1 at Fortanix   Jul 2023 - Jan 2025

- Generated millions in revenue by developing fuse-level file system encryption agent (Go/C++) for Linux and Windows platforms, achieving 99.98% availability, sub-millisecond latency, and CI/CD-enabled zero-downtime deployments across multiple enterprise customer environments
- Led development of an Secret Store CSI Driver for Fortanix cloud that reduced mount operation times caching Kubernetes secrets. Successfully released as an open-source project adhering to Kubernetes opensource standards
- Built a RAG-based internal chat app for financial institutions, compliant with strict regulations and optimized for high-concurrency, low-latency performance in enterprise use
- Transformed secret management workflow by delivering a HashiCorp Vault-compatible dynamic secrets integration for Fortanix DSM, including zero-downtime migration scripts secrets with perfect integrity validation.

Software Engineer - Intern at Fortanix   Jul 2022 - Jul 2023

- Contributed to the integration of Fortanix DSM with Hyperledger Fabric, enabling secure key management for blockchain operations and ensuring data integrity.
- Designed and built a flexible, secure federated machine learning system with privacy controls, enhancing the scalability and security of distributed AI mode

EDUCATION

Bachelors in Computer Science   Aug 2010 - Apr 2023
PES University

SKILLS

Python • Golang • C++ • PostgreSQL • Elastic Search • Git • Docker • Linux • AWS • AZURE

PROJECTS

Fortanix CSI Driver Provider 🔗

PUBLICATIONS

- Federated machine learning for distributed spectrum in communication networks : SPIE1
- Federated machine learning with flexible topology and distributed privacy controls : SPIE2