Leo Kamino

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WORK EXPERIENCE

Avigilon, Motorola Solutions Company — *Vancouver, BC*
Software Engineer — Jun 2025 - Present

- Architect and build an enterprise Agentic AI feature using LangGraph, FastAPI, MCP SDK, and vector DB, enabling operators to interact and search physical security systems via natural language.
- Implemented per-user MCP Server authorization with dynamic access filtering, ensuring proper RBAC for AI operations.
- Implement a Hybrid RAG strategy using Qdrant vector database, combining vector embeddings and sparse vectors to maximize document retrieval accuracy for domain-specific queries.
- Designed real-time streaming via Redis pub/sub and Rails ActionCable WebSockets, delivering event-driven updates from the Python agent to the React chat interface.
- Own CI/CD and container lifecycle: container image builds, Podman orchestration with systemd services, and a service management script for embedded Linux (Yocto) appliances.
- Established the project's engineering foundation: containerized dev environments, pytest infrastructure with async test support, LLM observability via Langfuse, and a modern Python monorepo with uv.

Software Automation Engineer Intern — May 2024 - Aug 2024

- Maintained and expanded a pytest-based automation framework, migrating legacy test suites and writing new end-to-end tests covering UI flows, REST APIs, and hardware integration.
- Engineered a Python tool to detect broken help links and missing localized help docs across every product screen - integrated into CI pipeline for automated checks.

Software Engineer Intern — Jan 2023 - Aug 2023

- Built a full-stack Notes feature enabling operators to document and track observations on identities, hardware devices, and alarms, with audit trails and role-based access, for an enterprise physical access control platform.
- Standardized search functionality across 6+ entity pages by designing a reusable React Search Component, eliminating pagination and rendering bottlenecks in legacy Rails views.
- Contributed to release validation for 3 major releases, executing assigned test cases, and resolving blocking defects across Rails, React, and C++ before engineering release

Optum — *Richmond, BC*
Software Development Engineer Intern — May 2022 - Dec 2022

- Developed an on-premise "Edge" Sync API designed to facilitate secure, HIPAA-compliant backups of medical imaging data (DICOM) to Google Cloud Storage.
- Developed a test script to stress-test the API's multi-part upload logic, identifying and resolving data-throughput bottlenecks.
- Worked on internal tools and bug fixes for Magnetic Resonance Imaging technology software using .NET and Angular.

EDUCATION

University of British Columbia — **Vancouver, BC**
BASc in Computer Engineering, GPA 90/100 — 2025 Grad
Honors: Graduate with Distinction, Dean's Honour List (All years), Trek Excellence Scholarship (Top 5%)

PROJECTS
More projects in leokamino.com/projects

Distributed Key-Value Store Server |Java, Distributed Systems, Protobuf, AWS EC2, Terraform — Jan 2025 – Apr 2025

- Built a distributed key-value store in Java with consistent hashing, epidemic-style membership protocol, and fault-tolerant replication — deployed on AWS EC2 via Terraform and validated under simulated network failures.

TECHNICAL SKILLS

Languages: Python, Ruby, Bash (Shell scripting), JavaScript, Java
Frameworks: FastAPI, Ruby on Rails, React, LangChain, pytest, Selenium
Infrastructure & DevOps: Docker, Podman, Nginx, Bamboo CI, Linux, Yocto Framework, JFrog Artifactory, Git, LangFuse
Databases: Redis, Qdrant, PostgreSQL, LDAP