Leo Kamino

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Software engineer with experience in full-stack development, software testing, and software automation. Skilled in building scalable applications using JavaScript/Typescript, Python, Ruby, and Java, with a strong understanding of API development, databases, and cloud technologies.

Adept at translating user requirements into technical implementations. Experienced in Agile development, CI/CD integration, test-driven development, and automated testing to ensure high-quality software solutions.

PROFESSIONAL EXPERIENCE

UBC APPLIED SCIENCE DEAN'S OFFICE — **Vancouver, BC**
Work Learn Program - Web Developer — **2021-Present**

- Led maintenance and optimization of UBC Applied Science websites, with 6,000+ weekly visitors, ensuring seamless performance.
- Built custom Drupal modules in **PHP** to implement site-specific functionality.
- Created a scalable **Sass-based design system** to ensure consistent and modern UI/UX across all UBC Engineering websites.
- Developed dynamic UI components using Twig, **JavaScript**, and **TailwindCSS**.
- Delivered custom websites for research groups and engineering teams, aligning with stakeholder requirements.
- Improved SEO scores by 20%, from 75% to 95+, through strategic optimizations.

MOTOROLA SOLUTIONS — **Vancouver, BC**
Software Engineer Intern — **May - Sep, 2024**
Front-end Software Engineer Co-op — **Jan - Sep, 2023**

- Designed and debugged scalable features using **Ruby on Rails** and **React**.
- Developed an **automated Selenium web scrape**r for broken link detection and HTML integrating automatic alerts using **Atlassian Bamboo CI**.
- Built **RSpec** and **React Testing Library** suites to improve code reliability.
- Performed end-to-end, functional, and exploratory testing, addressing critical bugs for high-quality releases.

UBC COMPUTER ENGINEERING DEPARTMENT — **Vancouver, BC**
Teaching Assistant - Software Construction — **Sep-Dec, 2023**

- Led weekly labs for 40+ students, provided one-on-one support during office hours, and graded assignments.
- Taught concepts of object-oriented programming using **Java**.

CHANCE HEALTHCARE — **Vancouver, BC**
Software Engineer Co-op — **May-Dec, 2022**

- Enhanced an internal web tool using **Angular** and **.NET,** semi-automating packaging of new update releases to streamline the creation and availability of medical device software patches.
- Performed rigorous sanity testing on medical device software patches, ensuring compliance with strict quality standards.

EDUCATION

UNIVERSITY OF BRITISH COLUMBIA — **Vancouver, BC**
BASc in Computer Engineering — **2020-2025**
GPA: 90/100

Activities: Teaching Assistant (Software construction), Work Learn, and Launchpad Design Team
Academic Recognition: Dean's Honour List, Trek Excellence Scholarship (Top 5% within cohort)

RELEVANT PROJECTS

MORE PROJECTS ON LEOKAMINO.COM

DISTRIBUTED KEY-VALUE STORE **Java, Distributed Systems, AWS EC2, Terraform**

- Designed and implemented a scalable **distributed key-value store** using **consistent hashing** for efficient load balancing and fault tolerance.
- Developed a **group membership** service using an **epidemic protocol** to manage node failures and maintain a dynamic cluster.
- Deployed the system on **AWS EC2** using **Terraform** for cloud management infrastructure, leveraging network emulation to test robustness under high latency and packet loss.

EMERGENCY AI RESPONSE SYSTEM **FastAPI (Python), React, Next.Js, Docker, MongoDB, Docker**

Capstone *project in collaboration with TELUS*.

- Designed a real-time AI-driven system to classify the priority of 911 calls to improve emergency response efficiency.
- Developed speech diarization with **Whisper** transcription and LLM-based speaker ID to isolate caller audio for ML training.
- Created a **Docker** container to deploy AI-powered back-end services.
- Implemented live audio recording and real-time transmission to a **FastAPI backend** using **WebSockets**, enabling seamless **real-time processing** of 911 calls for priority classification.

LANGSYNC **Java Android, Node.Js, OpenAI API, mongoose, Azure**

1st Place in CPEN 321 - Software Engineering project competition.

- Led a team of 4, taking ownership of architecture design to build a match-making **Android app** for language learners.
- Developed core features: recommendation algorithm, **Google OAuth2 authentication**, Calendar integration, and video calling.
- Integrated **OpenAI API** to provide grammar suggestions during live messaging

ENHANCED UDP FILE TRANSFER **C, Socket Programming, Network Protocol Design**

- Designed and implemented a reliable data transmission protocol over **UDP** using packet acknowledgment (ACK), retransmissions, and sequence numbering in **C**.
- Developed timeout and retransmission mechanisms, **achieving 83.32% bandwidth utilization**.
- Implemented packet sequence numbering to ensure ordered data delivery and checksum to prevent data corruption.
- Optimized bandwidth utilization and throughput efficiency, reaching **17.47 Mb/s throughput on a 20 Mbit/s link**, surpassing the 70% bandwidth requirement.

SKILLS

Programming Languages: Python, JavaScript, Ruby, Java

Web Development: React, Next.js, Typescript,HTML5, CSS, Sass, Bootstrap, TailwindCSS

Back-end Development: Node.js, FastAPI, Express.js, Ruby on Rails, SQL (MySQL), NoSQL (MongoDB)

DevOps and Cloud Tools: Git, GitHub Actions, Atlassian Bamboo, Docker, Jira, AWS, Terraform

Software Methodologies: Agile/Scrum, Test-Driven Development (TDD), Continuous Integration/Continuous Deployment (CI/CD)

RELEVANT COURSEWORK

Software Testing - CPEN 422
Introduction to Cybersecurity - CPEN 442
Computer Networks - ELEC331
Algorithm Design and Analysis - CPSC 320
Design of Distributed Systems - CPEN 431
Software Engineering - CPEN 321
Relational Databases - CPSC 304
Applied Machine Learning - CPSC 330