Leo Kamino

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Software engineer with experience in full-stack development, automation, and software testing. Proficient in Python, JavaScript, React, and DevOps tools. Completed multiple internships, contributing to enterprise web applications, system optimization, and AI-driven solutions. Seeking software development opportunities.

Interests: Software engineering, Software Architecture, DevOps.

PROFESSIONAL EXPERIENCE

UBC APPLIED SCIENCE DEAN'S OFFICE **Vancouver, BC**
Work Learn Program - Front-end 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.
- Developed dynamic UI components using Twig and JavaScript.
- 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 (MVC) and React.
- Developed an automated Selenium web scraper 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.

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 (GPA 90/100) **2020-2025**
Activities: Teaching Assistant (Software construction), Work Learn, Launchpad Design Team
Awards

- Trek Excellence Scholarship (Top 5%)
- Thomas Beeching Scholarship
- Dean's Honour List
- Outstanding International Student Award
- Faculty of Applied Science International Student Scholarship
- Martin Sikes Memorial Scholarship in Electrical and Computer Engineering

RELEVANT PROJECTS

MORE PROJECTS ON LEOKAMINO.COM

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.

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

- 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**, leveraging network emulation to test robustness under high latency and packet loss.

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

1st Place on 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 IMPLEMENTATION 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** and improving network reliability.
- Implemented packet sequence numbering to ensure ordered data delivery and 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, Ruby on Rails, HTML5, CSS, Sass

Back-end Development: Node.js, FastAPI, Express.js, SQL, NoSQL

Developer & DevOps Tools: Git, GitHub Actions, Docker, Jira

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