Leo Kamino Barros

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TECHNICAL SKILLS

Programming & Databases: Python, JavaScript, TypeScript, Ruby, Java, SQL, MySQL, MongoDB
Web & Mobile Development: React, Next.js, Ruby on Rails, HTML, CSS, Sass, Node.js, FastAPI
Developer & DevOps Tools: Git, GitHub Actions, Docker, CI/CD, Agile, Jira
Testing & Automation: Jest, React Testing Library, pytest, Selenium, Testing Automation

EDUCATION

UNIVERSITY OF BRITISH COLUMBIA - Vancouver, BC　　　　　　　　　　　　　*Graduating May 2025*
BASc in Computer Engineering (GPA: 89.5/100)
Awards: Trek Excellence Scholarship - Top 5% in the cohort.

EXPERIENCE

Web Developer (Part-time) - Vancouver, BC　　　*Sep 21 - April 22, Sep 23 - April 24, Sep 24 - Present*
UBC Faculty of Applied Science

- Spearheaded maintenance and optimization of UBC Applied Science websites, supporting 6,000+ weekly visitors while ensuring seamless performance.
- Designed and implemented a scalable Sass-based design system, standardizing CSS class styling across all UBC Applied Science websites to ensure consistent and modern UI/UX.
- Developed new custom websites for different research groups and engineering programs, transforming ideas into functional solutions while collaborating in cross-functional teams to design and document stakeholders' requirements.

Software Engineer Intern - Vancouver, BC　　　　　　　　　　　*Jan-Aug 2023 and May-Aug 2024*
Motorola Solutions

- Developed an automated Selenium web scraper to detect broken links and HTML issues in the ACM system, integrating it into Bamboo CI for reporting and streamlined maintenance.
- Unified 10+ search features into a single reusable React component, replacing fragmented Ruby on Rails implementations and improving code efficiency.
- Designed and debugged scalable, user-facing features using MVC architecture in Ruby on Rails and React.
- Built testing suites with RSpec and React Testing Library, enhancing code reliability and robustness.
- Conducted end-to-end, functional, and exploratory testing on release candidates, identifying, reporting and fixing critical bugs to ensure high-quality releases.

Teaching Assistant - CPEN 221 Software Construction - Vancouver, BC　　　　　　　*Sep-Dec 2023*
UBC Computer Engineering Department

- Led two weekly labs for 40+ students, provided one-on-one support during office hours, and graded assignments.

Software Development Engineer Intern- Richmond, BC　　　　　　　　　　　　　*May-Dec 2022*
Optum (Change Healthcare)

- 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.

PROJECTS　　　　　　　　　　　　　　　　　　　　　　　　*More projects at leokamino.com*

Emergency AI Response System - In progress　　　*FastAPI, Python, MongoDB, Deep Learning, Whisper, Next.Js*
Capstone project collaborating with TELUS.

- Researched and designed a real-time AI-driven system to classify 911 call priorities to improve emergency response efficiency when operators are overwhelmed during large-scale emergencies.
- Researched and implemented speech diarization using Whisper transcription and LLM speaker identification to isolate caller audio for ML model training.
- Built a responsive Next.Js front-end with shadcn, featuring audio input, and historical call management.
- Implemented live audio recording and real-time transmission to a FastAPI backend using WebSockets, enabling seamless processing of 911 calls for priority classification.

LangSync - 2023　　　　　　　　*Java Android, Node Js, OpenAI API, MongoDB, mongoose, Azure*
Winner of CPEN 321 - Software Engineering project competition

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