Leo Kamino Barros

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TECHNICAL SKILLS

Programming Languages: Python, JavaScript, Ruby, Java, HTML/CSS, SQL, C, Bash

Frameworks: React, Ruby on Rails, Node.js, Express,

Developer Tools: Git, Docker, Selenium, GitHub Actions, Bamboo, MongoDB, MySQL, Postman

Libraries: PyTest, Jest, Mongoose, Scikit-learn, Sass

Technologies: RESTful APIs, OAuth2, Agile/Scrum, TDD, CI/CD, SEO, Cryptography

Soft-skills: Problem-solving, communication, leadership, adaptability, collaboration, fast learner of new technologies

PROFESSIONAL EXPERIENCES

UBC FACULTY OF APPLIED SCIENCE   **Vancouver, BC**

Web Developer (Part-time)   *Sep 21 - April 22, Sep 23 - April 24, Sep 24 - Present*

- **Led the revamp of 10+ UBC websites**, collaborating closely with stakeholders to translate high-level concepts into fully functional web platforms, enhancing UBC's online presence and credibility.
- **Diagnosed and resolved bugs, developed new pages, and implemented features** across UBC APSC and ENG websites, ensuring optimal performance and a seamless user experience for over 6,000 weekly visitors.
- **Drove a 70% improvement in Search Engine Optimization (SEO) health** for the UBC Applied Science website, increasing SEO scores from 25% to 95%. Conducted in-depth SEO analysis and executed strategic optimizations, significantly boosting search visibility and solidifying the university's digital footprint.

MOTOROLA SOLUTIONS   **Vancouver, BC**

Software Engineer Intern   *Jan - Aug 2023 and May - Aug 2024*

- **Built an automated Selenium web scraper** for Avigilon's system to find broken links and HTML issues, integrating it into Bamboo CI for automated reports.
- **Consolidated 10+ search functionalities** into a reusable React component, streamlining Ruby on Rails implementations and reducing code maintenance overhead.
- **Developed features and fixed bugs** following MVC design in Ruby on Rails and React, optimizing performance and deploying robust solutions to production.
- **Applied test-drive development practices**, enhancing code quality and reducing the likelihood of regressions with comprehensive unit tests.
- **Played a key role in the validation process**, conducting end-to-end, functional, and exploratory testing of release candidates identifying and reporting multiple critical bugs to ensure product readiness.

UBC COMPUTER ENGINEERING DEPARTMENT   **Vancouver, BC**

Teaching Assistant - CPEN 221 Software Construction   *September - December 2023*

- **Led weekly lab sessions** for 40+ students, clarifying software construction concepts and addressing technical questions.
- **Provided one-on-one support** during office hours, assisting with project implementation and course content.
- **Graded assignments**, ensuring code quality and adherence to best practices.

OPTUM (CHANGE HEALTHCARE)   **Richmond, BC**

Software Development Engineer Intern   *May - December 2022*

- **Led enhancements to an internal web tool**, semi-automating the Program Temporary Fix Packaging process. Collaborated with stakeholders for end-to-end project delivery, reducing packaging time and increasing process reliability.
- **Mentored new co-ops**, providing onboarding support and conducting weekly check-ins to address challenges.
- **Conducted thorough sanity testing** on software patches for medical devices, ensuring compliance with stringent quality standards.

EDUCATION

UNIVERSITY OF BRITISH COLUMBIA

Vancouver, BC

BASc in *Computer Engineering (Software),*
(GPA: 89.3/100)

Graduating May 2025

Activities: Co-op Program, Launchpad Design Team, Teaching Assistant, and Work Learn Program

Awards:

- Outstanding International Student Award - 2020
- Trek Excellence Scholarship - 2021
- Thomas Beeching Scholarship - 2021
- Dean's Honour List 2021, 2022, 2024
- Faculty of Applied Science International Student Scholarship - 2022
- Martin Sikes Memorial Scholarship in Electrical and Computer Engineering - 2024

Relevant Coursework:

Software Engineering	Operating Systems	Computer Graphics	Relational Databases
Software Construction	DS & Algorithms	Computer Networks	Microcomputers
Machine Learning	Web Development	Cybersecurity	Software Testing
		Distributed Systems *	Deep Learning*

* To be completed on 24W Term 2

PROJECTS

More projects at **leokamino.netlify.app**

LangSync - 2023   Best Project Award in CPEN321-Software Engineering

Java Android, Node Js, MongoDB, mongoose, Azure

- **Led a team of 4** in developing a match-making platform for language learners, taking a full-stack role and driving project delivery.
- **Developed vital features,** including a recommendation algorithm, Google OAuth2 authentication, and video calling.
- **Integrated Google Calendar API** for seamless scheduling of learning sessions with automatic reminders.
- **Automated CI/CD pipeline with GitHub Actions**, running tests and static code analysis for continuous integration.
- **Implemented scalable backend services** to optimize data retrieval and user interactions for matching and messaging.
- **Awarded Best Project among 25+ teams,** delivering a polished, feature-complete app with a clean codebase and intuitive user experience

Art Gallery Management Platform - 2024

JavaScript, Node.js, MySQL, React.Js

- **Developed a web application** for managing and exploring galleries, artists, and artworks, delivering a user-friendly experience.
- **Designed and optimized a MySQL database schema** for efficient data storage and retrieval, supporting complex queries and reporting.
- **Implemented advanced SQL queries** (joins, aggregations, nested queries) to enhance data insights and performance.
- **Built scalable server-side functionalities** using Node.js to handle CRUD operations, ensuring seamless database interactions.

Chat Application with AI Moderation - 2024

Javascript, AJAX, Node Js, MongoDB, GPT4All

- **Developed a Node.js backend** to manage server operations and user sessions, ensuring stable and responsive performance.
- **Implemented MongoDB** to efficiently store and retrieve user data and chat history, optimizing database interactions.
- **Integrated the GPT4All Mistral OpenOrca model** for real-time AI chat moderation, deploying it locally to eliminate reliance on external APIs.
- **Designed an intuitive user interface** using HTML, CSS, and JavaScript, delivering smooth navigation and chat room features.