

Kimchhorn Sambath

kcs11@sfu.ca | <https://github.com/Skimchhorn> | [linkedin.com/in/kimchhorn-sambath/](https://www.linkedin.com/in/kimchhorn-sambath/) | [Maple Ridge, BC](#)

TECHNICAL SKILLS

Technologies: Node.js, Next.js, React.js, Tailwind CSS, Angular, Bootstrap, ShadCN, Azure, JavaFX, Vercel, AWS
Methodologies & Practices: Prompt Engineering, CI/CD pipeline, Project Management, Agile Methodology, and Software Development Life Cycle (SDLC), Test-Driven Development(TDD), API integration
Languages: C++, Java, JavaScript, Typescript, HTML, CSS, React, python
Developer Tools: Git, PostgreSQL, GitHub, Gitlab, Docker, Eclipse, VS Code, Postman, Figma, Linux, SQL

TECHNICAL WORK EXPERIENCE

Research Assistant | *Simon Fraser University* May 2025 – Present

- Collaborated with Professor Saba Alimadadi on a research project analyzing asynchronous anti-patterns in JavaScript and TypeScript applications; participated in weekly meetings to refine and enhance evaluation methods for measuring application testability
- Develop automated testing workflows using Jest through weekly collaboration sessions with a team of five, validating software behavior prior to static analysis to ensure a reliable foundation for further program evaluation.
- Designed the overall architecture of the research framework under supervisor guidance, ensuring robustness, scalability, and extensibility for future asynchronous program analysis and testability research.

TECHNICAL PROJECTS

Ceasefire.com | *PostgreSQL, Next.js, React.js, Typescript, Tailwind CSS, Docker, AWS* July 2025 - Present

- Designed and developed a full-stack humanitarian storytelling platform highlighting global conflict zones and refugee narratives.
- Implemented interactive ConflictCard components to visually compare opposing sides in each conflict, helping users understand the hardship experienced by all affected parties.
- Engineered a responsive and accessible UI with multilingual support, and deployed the application using Docker and Kubernetes to ensure the platform can handle global user traffic reliably.

Reinforcement Learning Agent in Game | *Unity, C#, Python, ML-Agents* May 2025 – July

- Designing and training an AI agent in a Unity-based 3D and 2D environment using reinforcement learning.
- Agent learns to simulate keyboard and mouse inputs for movement and combat, based on visual (camera), audio (gunfire, footsteps), and player state inputs (health, velocity, position).

AI-Powered Phishing Detection (Best Project Award) | *Next.js, React.js, Tailwind CSS, Git* Jan – Apr 2025

- Co-led a team of four to build a full-stack web application that leverages AI-powered tools to detect phishing attacks in real time, analyze threats, and educate users—enhancing cybersecurity awareness and prevention.
- Integrated Azure OpenAI APIs (ChatGPT) to dynamically generate phishing scenarios tailored to users, and incorporated virus scanner APIs to simulate real-world threats—enhancing effectiveness of cybersecurity.
- Designed the initial UI wireframe using Figma and translated it into responsive frontend components with React and Tailwind CSS.
- Collaborated with a teammate assigned to QA to implement end-to-end testing using Playwright, ensuring reliable simulation flows and validating the full user journey across real-time phishing threat scenarios.
- Live Demo: <https://deep-phishing.vercel.app/>

Interactive Travel Tracker Web App | *PostgreSQL, JavaScript, EJS, CSS* May 2024

- Built a web app with a clickable world map, allowing users to visually mark and track visited countries.
- Implemented multi-user travel data storage in PostgreSQL with seamless user switching for personalized tracking.
- Used EJS templating to dynamically render user-specific pages, improving the responsiveness of the travel history.

EXTRACURRICULAR ACTIVITIES

Langara Global Volunteer | *Team Member & Social Media Ambassador* Dec 2023 – Dec 2024

- Worked with a diverse team of twelve to create events and manage budget support from two supervisors.
- Assisted in organizing events such as orientations, and social activities to help students adapt to life in Canada.

EDUCATION

Simon Fraser University | *Transfer From Langara College* Burnaby, BC, Canada
Bachelor of Science in Computer Science Jan 2023 – Present