

Kimchhorn Sambath

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TECHNICAL SKILLS

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

TECHNICAL WORK EXPERIENCE

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

- Collaborate 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
- Lead the development of automated testing workflows with Jest, collaborating weekly with the team to validate software behavior prior to static analysis and ensure a reliable foundation for program evaluation.
- Design 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

Portfolio Website 2.0 | *Next.js, React, TypeScript, Tailwind CSS, Anthropic API, Vercel* August 2025 – Sept

- Migrated a vanilla HTML/CSS/JS site to a modern Next.js architecture with server-side rendering and route-based code splitting, improving performance and maintainability.
- Integrated Anthropic API to power AI-assisted content (project write-ups, blog summaries, and a portfolio Q&A), with safeguards for prompt hygiene and usage limits. Kim's Portfolio: <https://kim-portfolio-2-0.vercel.app>

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

- Design and develop a full-stack platform to share humanitarian stories on conflict zones and refugee experiences..
- Engineer 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

- Led a team of four through the software development life cycle (SDLC) to build a full-stack web application that leveraged AI-powered tools to detect phishing attacks in real time, analyze threats, and educate users.
- 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.
- Translated user stories and requirements into development tasks, creating wireframes in Figma and implementing 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>

EXTRACURRICULAR ACTIVITIES

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

- Assisted in organizing orientations and social activities to help international students adapt to life in Canada, using MS Word and Visio to prepare event guides and process flow diagrams.
- Managed event budgets and attendance records in MS Excel, improving accuracy and accountability in reporting.

EDUCATION

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