

Harsadh Vikhaas Rajesh Kumar

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EDUCATION

University of Victoria — B.Sc. Computer Science — Specialization in Software Systems

Jan 2024 – Present | Victoria, BC

- Relevant coursework: Algorithms & Data Structures I–II, Software Development Methods, Computer Architecture, Networks, HCI, Requirements Engineering, Data Mining, Probability & Statistics.

JBCN International School — IB Diploma — HL: Computer Science, Mathematics, Physics

Jun 2021 – May 2023 | Mumbai, India

PROFESSIONAL EXPERIENCE

BaroShift (formerly MyTorso.ai) — Full Stack Developer Co-op

Jan 2026 – Apr 2026 | Vancouver, BC (Remote)

- Engineered internal admin dashboards in React, TypeScript, and Tailwind CSS, integrating AWS Cognito for authentication — cutting manual account-management overhead for the ops team by an estimated 40%.
- Built user data override, session management, and audit-logging features, improving operational visibility and compliance workflows across 3 internal teams.

UVic Residence Services — Community Leader

Apr 2025 – Present | Victoria, BC

- Support a residence community of 60+ students through peer mentoring, event programming, and first-response crisis intervention.
- Developed conflict-resolution and de-escalation skills while coordinating directly with university staff and student services.

PROJECTS

ScholarU — Scholarship Discovery Platform

May 2024 – Present

Hackathon project, ongoing development

- Built a full-stack scholarship search tool for UVic students, enabling filtering by academic year, faculty, gender, and more — surfacing opportunities that generic search engines miss.
- Reduced average scholarship discovery time from ~2 hours of manual browsing to under 5 minutes; actively used by peers in the CS faculty.

DermaCheck — AI Skin Condition Classifier

Aug 2022 – Jan 2024

- Trained a machine-learning model to classify skin lesions (including early-stage melanoma) from camera images, achieving high accuracy on fine-grained visual variation.
- Delivered an end-to-end patient-to-doctor pipeline integrating video calling and blockchain-based health records, connecting users to dermatology services.

Accident Prevention System — ML Mobile App

Mar 2022 – Jul 2023

- Led UI/UX design in Adobe XD and implemented ML-powered real-time hazard detection in a mobile app, with push notifications for driver alerts.
- Owned the full design-to-deployment cycle — wireframes, branding, animation, and in-app notification logic.

CERTIFICATIONS & ADDITIONAL TRAINING

IBDP Extended Essay — Computer Science

2021 – 2023

- Benchmarked RandomX vs Script mining algorithms on a Raspberry Pi, measuring hash rate, CPU clock, and thermal performance — published as a formal 4,000-word research paper.

CS50 — Harvard University (Online)

Jun – Sep 2022

- Scored 98%; built proficiency in C, Python, SQL, JavaScript, HTML/CSS. Capstone: 'Smart Unlock' — a Python facial-recognition security app.

Scientific Computing with Python — freeCodeCamp

Sep – Dec 2022

- Completed 5 advanced Python projects covering scientific computation, data formatting, and CLI tooling.

SKILLS & LANGUAGES

Languages: Python · JavaScript · TypeScript · Java · SQL · C | **Frontend:** React · Tailwind CSS · HTML/CSS | **Tools & Cloud:** AWS Cognito · Node.js · Git/GitHub · Adobe XD | **Spoken:** English · Spanish · Tamil