

Aditya Padmarajan

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EDUCATION & AWARDS

University of Victoria

B.S. Computer Science, Software Systems Option, Business Minor (Fourth Year)

Expected Aug. 2027

Victoria, BC

EXPERIENCE

RBC Borealis

Mar. 2026 – May 2026

AI & Machine Learning Mentee

Toronto, ON

- Conducted exploratory data analysis on 1,500+ longitudinal youth health engagement records spanning 3+ years in a team of 4 mentees alongside 2 senior AI researchers, surfacing disengagement signals across 20+ behavioural features using Python, Pandas, and NumPy.
- Reduced high-dimensional engagement data to 2D embeddings by implementing UMAP clustering in Python and scikit-learn, isolating 4+ distinct user cohorts to inform downstream model design.
- Engineered an ML pipeline to flag at-risk youth navigating chronic illness by training PyTorch models on 3+ years of longitudinal engagement data, enabling earlier clinical intervention.
- Designed an analytics dashboard serving 4+ clinical and program teams by visualizing retention curves, engagement trends, and disengagement risk flags using Python, Matplotlib, and GA4.

University of Victoria

May 2024 – Sept. 2025

UVic Bound Student Leader

Victoria, BC

- Onboarded 500+ incoming international students by delivering peer mentorship and transition programming across 15+ virtual and in-person events spanning 2 summers.
- Coordinated 15+ large-scale orientation events by partnering with 5 fellow student leaders and 20+ International Centre staff, streamlining logistics across virtual and in-person formats.
- Boosted student engagement and inclusion by 30% by producing social media content including posts, captions, and short-form video, and advocating for student needs in planning sessions with university stakeholders.

HACKATHONS

Pulse – Web Summit Vancouver Hackathon 2026 Winner | TypeScript, React, Supabase, Claude API

May 2026

- Won 1st place at Web Summit's flagship hackathon by shipping Pulse, a real-time networking platform for live events with 13 integrated screens in under 3 hours alongside 1 teammate.
- Built an AI-powered matching engine surfacing context-aware connections across 12+ attendee profiles by integrating Claude API with Supabase-backed quest data, generating personalized match explanations and conversation openers.
- Designed a live spatial radar visualization rendering 10+ concurrent quests across 3 proximity zones using custom SVG animations and Framer Motion state transitions.

PreCheckAI - nwHacks 2026 (Shortlisted for Best use of Gemini API) | TypeScript, React, Gemini API

Jan. 2026

- Led a 4-person team to ship a healthcare MVP among 100+ competing teams in under 24 hours, building an AI-powered health insurance claims assistant from ideation to demo.
- Reduced claim-denial risk by building an LLM pre-checker that validated claim submissions against 10+ required fields and flagged missing documentation before submission, using FastAPI and Python.
- Accelerated end-to-end claim handling by shipping 3 distinct user flows (Prevention, Pre-Submission, and Appeal) covering the full claim lifecycle, built in React and TypeScript.

Lantern - INSPIRE Hackathon 2026 Runner-Up | TypeScript, React, Supabase, Gemini API

Jan. 2026

- Placed 2nd as runner-up by shipping a UVic AI wellness companion with 5+ integrated features in under 24 hours alongside 1 teammate, using FastAPI, React, and TypeScript.
- Generated context-aware Wellness Playbooks for 1,000+ possible user states by integrating the Gemini API with Supabase-backed user profiles, delivering tailored mental health resources on demand.
- Adapted UI and content in real time to 7+ weather conditions and 3 crisis-severity tiers by wiring Open-Meteo data into a React theming layer, escalating high-risk users to immediate support resources.

TECHNICAL SKILLS

Languages: Python, Java, C, JavaScript/TypeScript, SQL

Frameworks & Libraries: React, FastAPI, Tailwind CSS, PyTorch, scikit-learn, Pandas, Plotly, Streamlit, Matplotlib

Tools & Platforms: Git (GitHub/GitLab), Docker, Kubernetes, Linux, Supabase, Jupyter, Microsoft 365

EXTRACURRICULAR

6x Full Marathon Runner | 42.2 Km (26.2 Miles)

Oct. 2022 - Oct. 2025

- Completed 6 full marathons in 3 years while studying internationally at UVic, improving from 4:46:06 (RVM 2022) to 3:26:00 (RVM 2025) — a 28% time reduction demonstrating discipline, consistency, and long-term execution.