

Yash Sah

Waterloo, ON | +974 6623-9486 | yash.sah@uwaterloo.ca | [linkedin.com/in/yash-sah-039a7228b](https://www.linkedin.com/in/yash-sah-039a7228b)

EDUCATION

University of Waterloo

Waterloo, ON

Bachelor of Computer Science | GPA 3.8/4.0

Class of 2029

Relevant Coursework: Calculus I & II, Introduction to Micro/Macroeconomics, Algorithmic Design and Data Abstraction

Scholarships: Faculty of Mathematics Global Scholarship (\$15k CAD), President's Scholarship of Distinction (\$2k CAD)

TECHNICAL SKILLS

Languages: Python, C, C++, TypeScript, JavaScript, SQL, Racket, R & RStudio

Frameworks & Libraries: PyTorch, FastAPI, NumPy, Matplotlib, scikit-learn, OpenCV, React, Next.js, Tailwind CSS, Framer Motion, Three.js, VTK.js, Cesium.js, SimpleITK, Pygame

Tools: Git, Docker, Supabase, PostgreSQL, MySQL, OpenAI SDK, Google Places API

Experience

Banking Supervision Intern - Qatar Financial Centre Regulatory Authority (QFCRA)

Dec 2025 - Jan 2026

- Helped build a Graph-RAG intelligence system (FastAPI, PostgreSQL + pgvector, Gemini 2.5 Flash) that ran semantic search across 80+ regulatory and geopolitical events, enabling natural-language supervisory queries with inline source citations across QFCRA's monitored institution universe.
- Designed an AI news monitoring pipeline tracking 60+ financial entities and related parties across 8 data sources; automated classification layer sorted signals into 8 risk taxonomies.
- Co-authored a 10-page cybersecurity and AI adoption risk assessment across 60+ QFC-authorized entities; combined survey data and assessment visits into institution-level risk heat maps for the Banking Supervision Team.

PROJECTS

PulmoScan - Winner (Python, PyTorch, TypeScript, React, Next.js, VTK.js, Three.js, FastAPI)

Hack Canada 2026

- Built an ML-powered lung disease detection and 3D visualization platform from raw DICOM CT scans; named finalist for Most Technically Complex Hack and currently advancing to **Google's** next-stage startup funding track.
- Engineered a dual-track pathology detection pipeline combining Otsu thresholding with a fine-tuned EfficientNet-B0 classifier and Grad-CAM heatmaps, paired with an interactive VTK.js 3D lung viewer using marching cubes surface extraction.

Urban Marble - First Place (Next.js, TypeScript, Cesium.js, GPT-4o-mini, DALL-E 3)

DDC x Ignition Hacks 2026

- Led a 4-person team to build a mobile-first AR building scanner that pipes live webcam frames and GPS coordinates into a GPT-4o Vision endpoint, returning structured architectural metadata (architect, year built, style, history), tested end-to-end on mobile via an HTTPS dev tunnel.
- Architected a full-stack Next.js 16 app around a CesiumJS 3D globe (OSM Buildings geometry, five API routes, 400-listing multi-facet rentals aggregator across 165 real NYC/Toronto buildings), coordinated via a shared JSON schema defined before any code was written, enabling three developers to build independent subsystems.

Saudi Aramco ESG Framework - Semifinalist

UW Management Consulting Case Competition 2026

- Reached semifinals (top 8/80 teams) with a \$1B ESG capital-allocation framework for Saudi Aramco across operational decarbonization, infrastructure resilience, and CCUS readiness which modeled ~1.5 MtCO₂e/year verified abatement within 36 months at a ~16% portfolio IRR and ~\$88/tCO₂e marginal abatement cost.
- Conducted primary research via Bloomberg Terminals, Aramco's 2024 Sustainability Disclosure, and IEA net-zero pathways, and built a MAC curve with 10-year NPV sensitivity (\$0-\$100/tCO₂e) benchmarked against EU ETS and regional carbon pricing regimes to stress-test the thesis under policy uncertainty.
- Structured delivery as a CFO-led stage-gate governance model with ISAE 3000-assured KPIs and a phased 2027–2032 roadmap, defending the allocation to industry judges from **McKinsey, BCG, Deloitte, and KPMG**.

Awards

National Champion - ICPC (International Collegiate Programming Contest Qatar)

2024

- Won 1st place among 300+ participants in Qatar, scoring the same as the 2nd place college category, and advanced to the regional Arab Collegiate Programming Contest (ACPC).
- Represented the school, and was featured in the *Gulf Times*; won ~2.25k CAD as a cash prize.

Core Organizer - DPS Hackathon

2024

- Designed and led the school's inaugural Hackathon, with 100+ participants, fostering collaboration and innovation in STEM fields. Featured on the *Gulf Times*, with Cisco Professionals brought in as Judges.