

Michael Bazett

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TECHNICAL SKILLS

Languages: Python, C++, Java, SQL (PostgreSQL), HTML/CSS

Frameworks & Tools: FastAPI, Git, Docker, GitHub Actions, Supabase, Vercel, Railway

Libraries: PyTorch, YOLO, OpenCV, pandas, NumPy, Matplotlib

EDUCATION

Simon Fraser University

Expected Graduation: May 2029

Bachelor of Science - Software Systems, Applied mathematics minor

Burnaby, BC, Canada

- Dean's Honour Roll – GPA **3.8/4.0**

TECHNICAL PROJECTS

XHacks — Neighborhood News | [Live Demo](#) | [GitHub](#)

January 2026

Python · PostgreSQL · PostGIS · FastAPI · GitHub Actions

- Built an automated ETL pipeline with GitHub Actions to ingest and transform Vancouver Open Data API records daily, implementing idempotent upsert logic to prevent duplicate entries across **1,000+ civic events**
- Designed and documented a database schema for evolving event datasets, ensuring backward compatibility across releases.
- Designed a FastAPI backend with PostgreSQL + PostGIS database leveraging spatial indexing and automated geometric queries to match events to neighborhood boundaries without application-layer computation
- Developed a RESTful API with multi-parameter filtering (date range, event type, neighborhood) and optimized query performance using composite indexes on temporal and geospatial columns

JourneyHacks — Live Game Model Detection | [GitHub](#)

September 2025

Python · YOLOv8 · OpenCV · PyTorch · Computer Vision

- Engineered a real-time computer vision pipeline using YOLOv8 and MSS to synchronize object detection with a Python State Machine, achieving **¡50ms latency** and **0.85 mAP50** for detecting in-game resource objects
- Developed a weighted heuristic model with **92% precision** to project opponent's current hand **2–4 cards** in advance, integrating deck-cycle proximity, elixir constraints, and sequence history

OTHER EXPERIENCE

Head Line Cook / Server

June 2020 – Present

The Keg

Surrey, BC, Canada

- Operate in high-output, time-constrained environment handling up to **450+ covers in 4 hours**, maintaining product quality under strict timing constraints.
- Maintain service consistency during peak periods by coordinating front/back-of-house communication across high-volume shifts.
- Trusted to run critical stations (grill, second cook) during peak service hours; recognized by management for reliability, composure under pressure, and accountability.
- Mentor and help onboard new cooks by pair-working, as well as improve the team through cross training to ensure consistent standards across stations.