

KAZI BADRUL ARIF

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SUMMARY

Computer Science student at the University of Calgary passionate about building reliable, well-documented software. Skilled in JavaScript, Python, and SQL. Experienced with ambiguity and problem-solving in collaborative projects. Motivated to apply technical skills in modernizing workflows, data analysis, and efficient system design.

EDUCATION

Bachelor of Science in Computer Science

Sept 2022 - Dec 2026 (Expected)

University of Calgary, Calgary, AB

- **Relevant Coursework:** CPSC 471 (Database Management Systems), CPSC 441 (Computer Networks), CPSC 355 (Assembly Programming), CPSC 331 (Algorithms and Data Structures), SENG 513 (Software Engineering).
- **Achievement:** In CPSC 471 (Winter 2025, instructed by Prof. Reda Alhajj), scored **98% on the group project** and finished with a strong grade overall.

WORK EXPERIENCE

Software Developer (Internship) — Data Elysium

May 2025 – Aug 2025

- **Delivered** an IELTS mock-test prototype to **~10 pilot users, measured by 50+** repeatable demo runs and **≤10-min** local setup, **by** writing straightforward Python ETL scripts, a one-command CLI, and a **6-page** runbook.
- **Improved** reliability, **measured by 15** unit/integration tests and fewer PR reworks, **by** adding type hints/docstrings and pre-commit lint/type checks aligned with team standards.
- **Reduced** setup/config issues, **measured by** median debug time dropping **45 → 20 min, by** using .env parameters, sample datasets, structured logging, and “known-good” checkpoints.

Part-Time Associate — Dollarama

Jan 2024 – Present

- **Maintained** safe, smooth front-of-house ops while averaging **~20 hrs/week** with full-time studies, **by** following procedures, communicating clearly, and coordinating during peak hours.

PROJECTS

Twitter Network Sentiment Explorer (Independent Learning Project)

Aug 2025 - Sept 2025

Python, NLTK, NetworkX, Matplotlib, Pandas

- **Processed ~5k** tweets across **2** end-to-end runs, **measured by** consistent CSV/graph outputs and quick local setup, **by** building a small config-driven ETL, one-command CLI, and brief ops notes.
- **Improved** runtime **~30%** (**~18 → ~12 min**) and stability (**~10** simple tests), **by** batching I/O, basic vectorization, and adding structured logging.

Next-Step UofC (Group Project)

Jan 2025 - Apr 2025

React, Django (DRF), PostgreSQL

- **Delivered** role-based CRUD for student/employer across **~12** screens, **measured by** full post→apply→review flows passing manual QA and API contract tests, **by** designing an **8-table** schema with FKs/indexes, DRF endpoints, auth/validation, pagination, and error handling.
- **Reduced** demo bugs **~60%** over **3** iterations, **measured by** issue tracker counts and retest passes, **by** adding error boundaries, form guards, retry/backoff, .env config, and documented migrations/rollback steps.

Degree Navigator Prototype (Group Project)

Jan 2025 - Apr 2025

HTML/CSS/JS, Figma(Prototype), M/S PowerPoint

- **Validated** core flows with **~8** peer demos, **measured by** fewer misclicks and clearer steps, **by** iterating from paper sketches to clickable mockups, improving labels/tab order, and noting basic accessibility.

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, C, SQL

Libraries & Frameworks: Pandas, NLTK, NetworkX, Matplotlib, React.js, Node.js

Databases: PostgreSQL, MongoDB

Concepts: Data mining, database design, graph analysis, algorithms

Other: Git, teamwork, technical communication