

KAZI ADIT HOSSAIN

ENVIRONMENTAL DATA | CLIMATE ANALYTICS | SUSTAINABILITY

Vancouver, BC | +1 778 927 7032 | kaziadithossain@gmail.com | [LinkedIn](#) | [GitHub](#) | [Live Portfolio](#)

EDUCATION

University of British Columbia (UBC) - Bachelor of Science, Combined Major in Science
Statistics, Astrophysics & Environmental Science | Vancouver, BC

Sep 2022 - Present

TECHNICAL SKILLS

Data & Programming: Python | pandas | scikit-learn | Matplotlib | SQL | R (basic) | EDA | feature engineering | regression | time-series analysis

Environmental & Analytical: Environmental data analysis | climatology | renewable energy assessment | comparative analysis | research synthesis | technical reporting

Tools: Git/GitHub | Streamlit | Microsoft Excel | Word | PowerPoint

SELECTED PROJECTS

ClimateFlow BC - Environmental Data Science Project

Python | pandas | scikit-learn | Matplotlib | Streamlit | Time-Series Analysis [GitHub](#) | [Live Dashboard](#)

- Built a reproducible hydro-climate analytics pipeline integrating 366 daily observations from Squamish Airport and Water Survey of Canada station 08GA022; cleaned and joined climate and streamflow records and engineered lagged, rolling, and seasonal features for 349 modeling observations.
- Evaluated persistence, Linear Regression, and Random Forest using a chronological 80/20 split; Random Forest achieved the lowest MAE (51.6 m³/s), while Linear Regression achieved the lowest RMSE (84.0 m³/s) and highest R² (0.663), with results deployed through an interactive Streamlit dashboard.

Wind Energy Site Assessment

UBC ATSC 313 - Renewable Energy Meteorology

- Assessed three proposed Peace Region wind farm sites using wind-speed patterns, terrain effects, turbulence risk, and wind-power potential.
- Compared mountain wakes, valley shielding, and exposed-ridgetop conditions to evaluate site suitability and operational constraints.
- Recommended the strongest site based on higher wind speeds, greater wind-power density, and fewer terrain limitations in a consulting-style report.

Run-of-River Hydropower Investment Ranking

UBC ATSC 313 - Renewable Energy Meteorology

- Evaluated 10 proposed run-of-river hydropower projects across global regions using climate conditions, seasonal precipitation, and generation potential.
- Built a screening-level financial model estimating annual revenue, construction cost, and 15-year net profit using electricity prices, flow assumptions, and plant capacity.
- Ranked projects by potential long-term return and benchmarked the screening approach against a Canadian hydroelectric reference project.

PROFESSIONAL EXPERIENCE

Sales & Processing Representative | Centre for Sustainable Food Systems at UBC Farm

Jun 2026 - Present

- Support accurate sales, order, inventory, product-preparation, and processing workflows within a sustainability-focused food system.
- Track stock movement, maintain quality-focused handling, and coordinate with team members to keep operations organized and reliable.
- Build practical knowledge of sustainable food systems while supporting customer-facing and back-of-house operational needs.

Operations & Inventory Supervisor | AMS Blue Chip Cafe, UBC

Aug 2025 - Present

- Supervise 20+ staff in a high-volume campus operation serving up to 2,000+ customers per shift, coordinating priorities and resolving operational issues in real time.
- Coordinate task assignments, onboarding, scheduling support, inventory control, cash handling, and POS reconciliation with strong attention to detail.
- Monitor workflow and product availability while contributing to daily sales targets exceeding \$10,000.

Customer Service Representative | AMS Blue Chip Cafe, UBC

Aug 2023 - Jul 2025

- Processed high-volume transactions accurately while supporting inventory checks and day-to-day team coordination.
- Trained and mentored new staff on service procedures and operational workflows, improving consistency and reliability.

LEADERSHIP

Floor Representative | Totem Park Residence, UBC

Sep 2022 - May 2023

- Represented 50+ students, communicated resident concerns to residence leadership, and worked with advisors to improve the student experience.
- Supported student well-being by escalating community concerns appropriately and helping residents navigate residence resources.
- Facilitated discussions to resolve conflicts and strengthen communication between residents and UBC Housing Services.