



Kiersten Lyde-Stad

3rd Year Combined Major in Computer Science and Statistics

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TECHNICAL SKILLS

Languages:	Java, R, Python, SQL, JavaScript
Tools/Frameworks:	GitHub, JUnit, JSON, Jupyter, MATLAB, Excel
Web:	HTML, CSS
Environments:	VS Code, IntelliJ IDEA, SQL Workbench

TECHNICAL PROJECTS

Indigenous Business Directory | SQL, Data Analysis Jan – Aug 2024

- Development, optimization, and maintenance of Excel business directory
- Migration of directory to SQL, enhancing data security and scalability
- Streamlined supplier information gathering process via Qualtrics surveys

Pool Chemistry Logbook | Java, JUnit, JSON, UI Design Dec 2023

- Developed a Java-based digital tool for managing pool chemistry, featuring data logging, analysis, and alerting functionalities via exception throwing
- Implemented data persistence using JSON for saving and loading logbooks
- Designed an intuitive UI for monitoring current and historical readings

Pool Chemistry Diagnostic Tool | Python, Jupyter, GitHub Jun 2023

- Analyzed pool chlorine data via constructing functions to indicate whether a level is in range, its difference from the ideal range, and the quantity of chemicals required to correct it
- Proposing program to local pool as a replacement for manual recording and calculations

Vehicle Theft Rates Analysis | R, Statistical Inference, Jupyter Apr 2023

- Performed statistical analysis on vehicle theft data using R, including two-sample z-tests and bootstrap confidence intervals
- Constructed a final analysis based on hypothesis testing results

Heart Disease Symptom Analysis | R, Data Science, Jupyter, GitHub Dec 2022

- Designed and validated a multiple linear regression model to explore relationships between heart disease symptoms and age
- Managed a group project using GitHub for version control and collaboration

Resonant Frequency vs. Temperature Analysis | Data Science, Excel Jan - Mar 2022

- Explored the relationship between increased temperature and frequency of a trumpet
- Analyzed frequency spectrum data with Excel and found statistically significant results



WORK EXPERIENCE

Indigenous Procurement Administrator Co-op | UBC Finance Jan – Aug 2024

- Led data collection and analysis for UBC's Canadian Supply Chain Act report, assessing supply chain risks of forced/child labor
- Conducted and analyzed Workday Report and Excel spend data to reach Indigenous spending goals, identify procurement opportunities, and track KPIs
- Development and documentation of standard operating procedures and business plans for various projects

Swim Instructor/Lifeguard | North Vancouver Recreation & Culture Sep 2019 – Present

- Collect and analyze pool chemistry data, communicating with coworkers to adjust pool chemistry
- Utilize Excel and PerfectMIND software for swim skills tracking and lessons scheduling

VOLUNTEER EXPERIENCE

Science One Mentor | UBC Sep 2022 – Present

- Providing guidance to first-year students in UBC's accelerated Science One program

Non-Commissioned Officer | St. John Ambulance First Aid Sep 2016 – 2022

- Teaching and evaluating emergency first aid skills to children ages 5-15

Science Conference Moderator & Participant | UBC Science One Mar 2022

- Presented research findings and facilitated discussions in two-day scientific conference

Flute and Ensemble Lessons | Community & Private Sep 2016 – Present

- Tutoring, leading ensemble clinics, and conducting junior concert bands

EDUCATION

3rd Year Bachelor of Science, Computer Science and Statistics Expected graduation May 2026
University of British Columbia, Vancouver, BC

CERTIFICATIONS

- National Lifeguard Pool Option (Recertification) Jul 2023
- Standard First Aid and CPR-C-AED (Recertification) Sep 2024
- WHMIS for Workers May 2023