



## Kiersten Lyde-Stad

Combined Major in Computer Science and Statistics, 3<sup>rd</sup> Year

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### TECHNICAL SKILLS

<b>Languages:</b>	Java, Python, C, C++, R, SQL, Bash, LaTeX
<b>Tools/Frameworks:</b>	GitHub, JUnit, JSON, Jupyter, MATLAB, Excel, Workday
<b>Web:</b>	JavaScript, HTML, CSS
<b>Environments:</b>	VS Code, IntelliJ IDEA, SQL Workbench, Overleaf

### TECHNICAL PROJECTS

#### Portfolio Website | Web Development Jun 2024 - Present

- Developed a personal portfolio website to showcase projects and skills
  - Utilized HTML, CSS, and JavaScript to create a responsive and visually appealing design
- Technologies:** HTML, CSS, JavaScript, VS Code

#### Indigenous Business Directory | UBC Finance 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
- Technologies:** SQL, Excel, Qualtrics

#### Pool Chemistry Logbook | Software Construction 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 for saving and loading logbooks
  - Designed an intuitive UI for monitoring current and historical readings
- Technologies:** Java, JUnit, JSON, IntelliJ IDEA

#### Pool Chemistry Diagnostic Tool | Data Analysis 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
- Technologies:** Python, Jupyter, GitHub

#### Vehicle Theft Rates Analysis | Statistical Inference 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
- Technologies:** R, Jupyter, GitHub

#### Heart Disease Symptom Analysis | Data Science 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
- Technologies:** R, Jupyter, GitHub

#### Resonant Frequency vs. Temperature Analysis | Data Science, Physics 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
- Technologies:** Excel, SpectrumLab

## 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 labour
  - 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
- Technologies:** SQL, Excel, Workday, Qualtrics, MS Office

### 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
- Technologies:** Excel, PerfectMind

## 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 Sep 2016 - 2022

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

### Science Conference Moderator & Participant | UBC 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

### B.Sc. Combined Major in Computer Science and Statistics, 3<sup>rd</sup> Year Expected graduation May 2026

University of British Columbia, Vancouver, BC

## CERTIFICATIONS

Workplace Hazardous Materials Information System Training	Feb 2024
National Lifeguard Pool Option	Jul 2023
Standard First Aid & CPR/AED C	Jun 2023
WHMIS for Workers	May 2023
WorkSafe BC Workplace Safety	Feb 2019