Kiersten Lyde-Stad

Combined Major in Computer Science and Statistics, 4th Year

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TECHNICAL SKILLS

Languages:	Java, Python, C, C++, R, SQL, Bash, LaTeX
Libraries:	scikit-learn, JSON, JUnit, NumPy, Matplotlib, pandas
Tools/Frameworks:	GitHub, Cloudflare, Jupyter, MATLAB, Excel, Workday
Web:	JavaScript, HTML, CSS, Streamlit
Environments:	VS Code, IntelliJ IDEA, SQL Workbench, Overleaf

TECHNICAL 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 potential risks of forced/child labour
- Developed processes for identifying sustainable companies through web scraping and certification cross-referencing
- Created standard operating procedures and business plans to guide procurement and sustainability efforts
- Analyzed Workday Report and Excel spend data to support UBC's sustainability initiatives
  Technologies: SQL, Excel, Workday, Qualtrics, MS Office

TECHNICAL PROJECTS

SympFlaura: Symptoms & Flareup Tracker | Machine Learning   May 2025 - Present
- Developed a machine learning model to predict symptoms and flareups based on user input
- Utilized Streamlit to create a user-friendly web application for the model
- Utilized Streamlit authenticator to secure the application with data persistence
  Technologies: Python, Streamlit authenticator, scikit-learn

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

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

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

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

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 Conference Moderator & Participant | UBC   Mar 2022

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

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

Tutored, led ensemble clinics, and conducted junior concert bands.

Junior Summer Camp Counselor | BC SPCA   Aug 2016 - Aug 2017

Educated children aged 5-12 about animal welfare, including responsible pet care and the importance of adopting rescue animals.

EDUCATION

B.Sc. Combined Major in Computer Science and Statistics, 4th Year   Expected Graduation 2026
University of British Columbia, Vancouver, BC

CERTIFICATIONS

Standard First Aid & CPR/AED C   Jun 2025
Workplace Hazardous Materials Information System Training   Feb 2024
National Lifeguard Pool Option   Jul 2023
WHMIS for Workers   May 2023
WorkSafe BC Workplace Safety   Feb 2019