Kiersten Lyde-Stad

3rd Year Combined Major in Computer Science and Statistics

klyde-stad@outlook.com (604) 603-4429   https://github.com/klydestad
https://www.kierstenly.dev/

TECHNICAL SKILLS

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

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

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   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   2022 – Present
- Providing guidance to first-year students in UBC's accelerated Science One program

St. John Ambulance Non-Commissioned Officer | St. John Ambulance First Aid   2016 – Present
- Teaching and evaluating emergency first aid skills to children ages 5-15

Flute and Ensemble Lessons | Community & Private   2016 – Present
- Tutoring, leading ensemble clinics, and conducting junior concert bands

Science Conference Moderator & Participant | Science One UBC   Mar 2022
- Presented research findings and facilitated discussions in two-day scientific conference

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

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