Daniel Kim

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TECHNICAL SKILLS

Programming Languages: Java, Python, R, C++, C, Stata, HTML, CSS, Microsoft Excel
Tools & Technologies: IntelliJ, Git, React, Pandas, NumPy, Matplotlib, JUnit, Dplyr, Tidyverse, GeoPandas, Anaconda, Pytest

PROJECTS

GM Trade Simulator   **Java**   **Jan 2022 – April 2022**
- Created a player trade simulator in Java with user-handling buttons that execute trades, create and edit players, update rosters, and display player attributes with picture components
- Designed a JFrame GUI with Swing to create an interaction between the user and application
- Performed Test Driven Development using JUnit and persisted game state in JSON to allow for saving and loading

Hearo Speech-To-Text Application   **React, HTML, CSS**   **Feb 2022 – Mar 2022**
- Designed and implemented a web application that displays text and buttons to start the application
- Built the front-end of the application using React with HTML and CSS
- Collaborated with team members on the implementation of Twilio's speech-to-text API to back-end
- Top 5 placement with over 250 participants in StormHacks Hackathon

Stock Price Evaluator   **Python**   **Feb 2021 – Present**
- Performed statistical analyses in Python on 100+ observations of stock prices with NumPy to handle large-scale arrays, Pandas DataFrame to read historical CSV files, and Pandas' Statsmodels to run regressions
- Generated graphical visualizations of findings with Matplotlib

Applied Economics Capstone Thesis   **R, Stata**   **Jan 2020 – April 2020**
- Completed a senior thesis analyzing the depths of the NHL Draft with the Heckman Selection Model
- Assembled, wrangled, and merged over 15 data sets into one master dataset with Tidyverse, Dplyr, Ggplot2, and Stata
- Selected as one of the top 3 senior research papers in an Economics graduating class of over 250 students

WORK EXPERIENCE

Research & Development Engineering Trainee — *Communications Research Centre*   **Sept 2022 – Dec 2022**
- Constructed software algorithms that supported multi-layered datasets using Anaconda, GeoPandas, and Numpy
- Built testing frameworks to ensure correctness in code with Pytest

Data Research Analyst Co-op — *CKM Sports Management*   **Jan 2020 – April 2020**
- Developed over 20 research questions on ways to improve efficacy in player draft predictions through hypothesis testing
- Discovered over 10 new statistical relationships that directly helped catalyze 4 new training regimes for CKM athletes

Data Analyst & Statistician — *UBC Varsity Analytics*   **Sept 2018 – Sept 2021**
- Compiled over 60 advanced data across major junior leagues into statistical models to formulate relationships in Python
- Improved the team's wins' percentage by 10% annually by integrating statistical analyses into game-day strategies

Logistics & Operations Intern — *UBC Athletics*   **Aug 2018 – Sept 2019**
- Trained over 15 additional incoming staff members in equipment deliveries, inventory control, and budgeting
- Regularly conducted inventory control for over 100 essential equipment and materials

EDUCATION

Bachelor of Computer Science, 3rd Year — *University of British Columbia, Vancouver*   **Exp. Graduation April 2024**

Bachelor of Arts, Economics with High Distinction — *University of British Columbia, Vancouver*   **Class of 2021**

ADDITIONAL INFORMATION

- **Awards:** Trek Excellence Scholar 2020 & 2021 (gpa in top 5%, awarded $1,150); Perry Bar Hall Scholar 2021 (awarded $1,150)
- **Affiliations:** UBC Finance Club; UBC Stock Trading Group; BCS Student Association Executive