SOPHIE DO

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EXPERIENCE

Data Architecture & Insights, Softchoice Corporation, Toronto, ON   **Sept.2022 - Present**
- Developing strategy by analyzing, extracting data-driven actionable insights to improve campaign targets.
- Developing automated script to organize, collect, and match internal data against external third-party data using towards campaign execution.
- Creating Power BI reporting dashboard to organize company performance which helps improve workload efficiency and effectiveness.

Bioinformatician at McConkey Lab, University of Waterloo, Waterloo, ON   **Sept.2021 - Apr.2022**
- Served on computational biology research team; used bioinformatic approaches to determine the functional importance of S-layer protein found in prokaryotes
- Constructed model platform to predict S-layer protein lattice types and its symmetry

AI Student, University Health Network -Peter Munk Cardiac Centre, Toronto, ON   **Jan - June.2021**
- Served on Artificial Intelligence team; applied advanced machine learning models to investigate precision medicine/ immunosuppressant approach to long-term complications after liver transplantation.
- Applied data analysis technique to crude Scientific Registry of Transplant Recipients (SRTR) database and University Health Network liver transplant database using Python and R programming languages

Bioinformatician at ArGan's Research Lab, University of Waterloo, Waterloo, ON   **Sep - Dec. 2020**

- Served on computational biology research team; performed sequence and structure analysis via Chimera, ClustalX, and pBlast
- Used Compute Canada to run over 100 mutated SARS COV2 spike-ACE2 complex simulations via Amber18 software, to understand COVID 19 spike protein role in binding to human ACE2 receptor.

Data Engineering Co-op, ChipCare Corporation, Toronto, ON   **Sep - Dec.2019**

- Initial database cleaning and maintenance, identification of the new system's data type requirements
- Coordinated with Software Developer to compile Python scripts for automating data wrangling processes

NAPRA Project Coordinator, London Health Science Centre, London, ON   **Jan - Apr.2019**

- Served on pharmacy team; evaluated optimal long-term storage conditions of drugs by applying HPLC
- Contributed significantly by generating and presenting over 25 drugs dossiers and 20 drug stability reports

EDUCATION

Bachelor of Science in Honours Biochemistry Co-op, University of Waterloo, Waterloo, ON

Chemistry Honour Roll, High School for the Gifted, Ho Chi Minh city, Vietnam

SKILL

Languages: Python, R, SQL, HTML, CSS, LaTeX, Linux, VBA

Statistical and data visualization software: SAS, JMP, Tableau, Power BI

High performance computing: Cuda