PATRICIA LAN

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Portfolio: https://patricialan.github.io/portfolio/

SUMMARY

Data Analyst with a Data Analytics Boot Camp Certificate (University of Toronto) and healthcare background, aspiring for experience in public policy, business, finance, and academia. Enjoys analyzing data to tell stories with intuitive visuals, and an advocate for data-informed decision-making. Enthusiasm for self-directed learning, readiness to apply skills in novel settings, and reliability make me a valuable team member.

TECHNICAL SKILLS

Tools/Languages: Python 3, JavaScript, SQL, Flask, web scraping, (Chrome Developer Tools, Splinter, and Beautiful Soup), machine learning, HTML5, CSS3, Git, Jupyter Notebook, Visual Studio Code, RStudio, Tableau, Amazon Web Services (AWS), Visual Basic for Applications (VBA), and Excel.

Databases: PostgreSQL (with pgAdmin 4), SQLite and MongoDB

PROJECTS

COVID-19 Dashboard
    Dashboard: https://pmmfs.github.io/
    Repository: https://github.com/pmmfs/capstone-project.git
    An interactive webpage was created about COVID-19. The page showcased predicted numbers of cases and deaths (by supervised machine learning) and evaluated government measures to prevent the spread of COVID. Heatmap correlations and unsupervised machine learning were used to detect trends between country characteristics, government measures, and numbers of cases and deaths. Project repo: https://github.com/pmmfs/capstone-project.
    Tools/languages: Python, Jupyter Notebook, JavaScript, HTML5, CSS3 and Bootstrap

Server   2018-2020
Sugarbowl   Edmonton, AB

Worked in a team with servers, kitchen staff, and hostess to provide efficient and cheerful customer service in a high-volume restaurant. Used concise verbal and written communication with patrons and teammates to obtain correct orders and allergies for timely delivery of food/drinks.

Medical Resident (Pathology) and Student   2011-2018
Alberta Health Services and Kelowna General Hospital   Edmonton, AB & Kelowna, BC

Developed leadership skills as co-chief resident. Acted as liaison between staff, lab techs, and residents to improve lab work flow and residency curriculum. Presented patient cases at rounds and produced hospital reports. Worked in a team with allied healthcare (nurses, doctors, and physio-/occupational therapists) and used healthcare databases (electronic medical records and Sunquest CoPathPlus) to deliver patient care. Balanced hospital service with self-directed learning.

Research Assistant   2008-2010
BC Cancer Research Centre (Terry Fox Laboratory)   Vancouver, BC
& University of Victoria   & Victoria, BC

Experience in academic research labs focused on stem cells, immunology, bacterial diversity, and plant biology. Engaged in the research process from performing literature reviews, to designing, conducting, and troubleshooting experiments, to producing scientific presentations/papers. Collaborated with other students and labs. Used bioinformatics databases and gained technical skills in PCR, gel electrophoresis, immunoblotting, cell culture, spectrophotometry and MALDI-TOF mass spectrometry. Received BC Cancer Research Studentship and NSERC (Natural Sciences and Engineering Research Council of Canada) Research Award.

EDUCATION

- **Data Analytics Bootcamp Certificate: University of Toronto**
  - A 6-month program where programming skills were gained in Python, JavaScript, relational and non-relational databases, web scraping, machine learning, Rstudio, Tableau, and big data.

- **Pathology Residency (4 years): University of Alberta, Edmonton**

- **MD: University of British Columbia, Kelowna**

- **BSc in Biochemistry: University of Victoria, Victoria**