

Yongpeng Fu

Master student in Data Science and Analytics, Canada

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[GitHub](#)

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WORK EXPERIENCE

Data Science & Software Developer, Co-op

Cenovus Energy, Calgary, CA

Sep 2022- Dec 2022

- Built and deployed 2 automation tools for financial operation team using GUI (PyQt) and web application (Dash)
- Developed standardized approach to unit testing the source code for continuous deployment in the codebase
- Collaborated with HR team and created one PowerBI dashboard to monitoring all employee function hierarchy
- Technology used: Python, R, SQL, PyQt, Dash, PowerBI, GitLab, Heroku, Posit Rstudio

Data Science Intern

Canadian Tire Corporation, Calgary, CA

May 2022-August 2022

- Reduced the manual time from 4 hours to 5 minutes by developing a GUI tool (Tkinter) for a logistic team
- Developed an algorithm to efficiently consolidate more than 8000 articles across 340 stores each month
- Created a time-series model to predict article selling curve with an average 10% improved prediction accuracy
- Collaborated with other 2 interns to centralize all automation tools in one GUI application in the logistic team
- Technology used: Python, R, SQL, Tkinter, Pandas, Dask, Matplotlib, ARIMA (time series), GitHub

Master Student of Data Science and Analytics

Department of Data Science, *University of Calgary*, Calgary, CA

2021-Present

- Worked with 4 other classmates to exploring Post-secondary Graduate Earnings in Alberta from project initiation, data collection, cleaning, exploratory data analysis and communicating the findings
- Teamed up with 3 to working on a big-data management project by writing up more than 100 of complex SQL queries to join 10 relational data tables from MySQL server, to further explore various visualization using Python
- Led a team of 6 to conduct comprehensive statistics, build regression model using R to predict the selling price of used vehicles by analyzing thousands of records, resulting in a high 75% explainable variance

Database Administrator Trainee

University of Calgary Continuing Education, Calgary, CA

2019-2020

- Designed databases, ran ad hoc queries for requested changes and updates to database structure and data
- Used stored procedures and views to provide data to stakeholders by combining datasets from database

Bioinformatician

Faculty of Veterinary Medicine, *University of Calgary*, Calgary, CA

2017-2021

- Built up 3 pipelines using R for discovering fast-growing microbe, microbiome study and RNAseq analysis
- Accelerated the project execution by 2 months using High Performance Computer Cluster (UNIX)
- Hosted 4 bioinformatics training sessions to a total of 20 student trainees, research staff and professor

Data Analyst & Project Coordinator (Volunteer)

Data for Good Calgary, CA (<https://calgary.dataforgood.ca/>)

2022-Present

- Helped 5 new volunteers develop a strong commitment to making our communities better through data
- Supported 2 project teams' formation from finding the right members to initiating the project for social good
- Actively contributed to the technical knowledge pool of programming, database, and statistics

EDUCATION

Master of Data Science and Analytics

University of Calgary, Canada

2021-Present

Master of Health Science

University of Saskatchewan, Canada

2013-2017

Bachelor of Health Science

Beijing Institute of Technology, China

2008-2012

SKILLS

Programming	Data	Communication
Python (Dash, PyQt, Pandas, scikit-learn), Heroku, R (tidyverse), SQL, HTML, CSS, JavaScript&DOM, UNIX, Git, GitHub, GitLab, CI/CD	Statistics, Machine Learning, Database (Microsoft SQL, MySQL, Oracle), Microsoft Certified: Azure Data Fundamentals, PowerBI	Story Telling (Presentation), Public Speaking (Toast Masters), Interpersonal skills (Team Leader)