PHUONG K. NGUYEN

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EDUCATION

University of Alberta   September 2019 – May 2023
Bachelor of Science in Computer Science – Business Minor
- GPA: 3.8/4.0
- Awards: International Student Scholarship, Undergraduate Scholarship, Dean' Honors Roll.
- Relevant coursework: Software Engineering, Machine Learning, Database Management, Business Analytics Consulting, Predictive Business Analytics.

WORK EXPERIENCE

University of Alberta   Edmonton, AB
Teaching Assistant, CMPUT 101 - "Introduction to Computing"   January 2021 – December 2022
- Coordinated weekly lab sessions to 2 classrooms of 25 students each to help students practice class materials.
- Assisted in teaching Python and sorting algorithms to 200+ non-science major students.
- Performed regular data entry tasks on total of 400+ student assignment and lab grades using Excel.

Deloitte   Hanoi, Vietnam
IT Audit Intern   May 2022 – August 2022
- Performed assessment of the technical and general IT controls (GITC), database security and business process/application controls for Vietnamese clients in Banking industry.
- Identified and evaluated IT and business risks, and general IT controls which mitigate risks to contribute to the organization's improvement daily.
- Prepared planning and proposals and met prospective clients to support business development activities.

Vietnam Low Emission Energy Program II (V-LEEP II)   Hanoi, Vietnam
Operation Assistant   May 2022 – July 2022
- Demonstrated excellent communication skills and quick learning to efficiently assist Deputy Chief of Party in administrative tasks, procurement, and inventory management.
- Provided support in contacting media and organizing a launching conference with over 100 guests.

PROJECTS

Iceland Air Ambulance Service Optimization   January 2023 – Present
- Analyzed Iceland incident and population data to identify the geographical distribution of emergency calls and compute their relative distance to pre-existing medical help.
- Developed an optimization model with R and Gurobi to determine helicopter base configuration which can cover 90% of the population within 45 minutes.
- Facilitated reproducible research with R Markdown and visualized the optimal helicopter bases using maps.

Data Analytics for Grocery Store   September 2022 – December 2022
- Conducted a market basket analysis to identify customers purchasing patterns and basket profiles, which can support retailers in optimizing store layout and increasing cross-selling.
- Developed a predictive model for customers' next purchased products using R and SQL.
- Delivered a report of the analytic findings and effectively presented the results to general audiences.

Habit Tracker Android Application   September 2021 – December 2021
- Collaborated with 5 students to design and develop a habit tracking app, which encourages users to form frequent and good habits, using Figma, Android Studio, and Cloud Firestore.
- Built a platform for mobile users to connect with each other through following and sharing habit activities.
- Analyzed user data and illustrated habit completion progress via data visualization to help users track their goals.

SKILLS

- **Programming Languages and Frameworks:** Python, C/C++, Java, R, VBA, Agile, Scrum.
- **Data and Machine Learning:** SQL, Google Firestore, MongoDB, Julia, Python (e.g., NumPy, pandas, matplotlib), Excel, Tableau, Power BI.