Danish Hakim

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Education

University of British Columbia Vancouver, BC

Bachelor of Applied Science, Biomedical Engineering. Minor in CS | Presidential Scholar *Sept. 2022 – May 2027*

Experience

Data & AI Engineering Intern - AI Accelerator May 2025 – Present

TELUS *Vancouver, BC*

- Developing a **Model-Based Reinforcement Learning (MBRL)** pipeline using **Python, GCP, and API integrations** to optimize HVAC energy consumption across TELUS offices and data centers, projected to save **$450,000** and reduce energy usage by **20% over 1.4 years.**
- Migrated legacy **PHP** and **Shell scripts** to Python, enabling remote server execution and seamless SNMP communication with HVAC controllers, improving infrastructure reliability and maintainability.
- Piloted Google's new Places Insight and **BigQuery** integration using **SQL** to enhance location-based analytics and network planning workflows for TELUS infrastructure services.
- Contributing as first author to research paper for **HCI International 2026** exploring SHAP and LIME for improving transparency and trust in AI-driven enterprise tools.

FP&A Analyst (Part-time) Sep. 2024 – Apr. 2025

Fennec.AI *Vancouver, BC*

- Built financial and revenue projection models used for investor and VC pitch decks, contributing to a successful **$300K pre-seed raise** at a **$10M valuation.**
- Assisted in creating revenue and expense forecasts to support budgeting and planning activities.
- Helped track and analyze key business metrics to support decision-making and reporting.

Material Analysis & Bioengineering Research Intern May 2024 – Apr. 2025

UBC BioProducts Institute *Vancouver, BC*

- Led development of a low-cost artificial corneal stroma prototype using sustainable biomaterials in collaboration with an ophthalmologist at Vancouver General Hospital.
- Used **Python, R, and Excel** for tensile strength and optical transmission data analysis, achieving 35% higher tensile strength and 1.1% improved clarity compared to baseline samples.
- Presented research at ACS Spring 2025 Conference (13,000+ attendees) and selected for the competitive **Sci-Mix session** for outstanding abstracts.

Projects

PhishNet.AI | *Python, Flask-RESTX, HTML/JavaScript, Scikit-learn, SVC, TF-IDF* July 2025

- Built a phishing detection platform with **Flask-RESTX** backend and **HTML/JavaScript** frontend for real-time email and SMS classification.
- Implemented a full ML pipeline including preprocessing, **TF-IDF** vectorization, **SVC** model training, and evaluation with backend deployment using joblib.

Project GitHub

MindTap: Assistive EEG Headset | *MATLAB, Signal Processing, SolidWorks* Sep. 2023 – June 2024

- Developed EEG-based assistive headset enabling neural control of iOS switch-accessibility features for users with motor impairments.
- Wrote **MATLAB** signal processing scripts to clean, preprocess, and convert raw EEG brainwave data into binary control triggers.
- Selected as a finalist in the **2024 Simon Cox Design Competition** for accessibility and neurotechnology innovation.

Project Demo

Technical Skills

Languages: Java, Python, C/C++, SQL (Postgres), JavaScript, HTML/CSS, R, PHP
Developer Tools: Git, Docker, Google Cloud Platform, VS Code, Visual Studio, BigQuery, IntelliJ
Libraries: pandas, NumPy, Matplotlib, gymnasium, PySNMP, TensorFlow