

EDUCATION

University of British Columbia

Non-Degree Studies in Computer Science

Relevant Courses: Algorithm Design, Machine Learning, Numerical Linear Algebra, Computer Vision

Vancouver, BC, CA

Aug 2024 – May 2026

Carnegie Mellon University

Bachelor of Science in Information Systems

Relevant Courses: Software Design & Development, Data Science, Intro to Deep Learning

Doha, QA

Aug 2020 – May 2024

EXPERIENCE

Research Assistant

ACD Lab (Addictions and Concurrent Disorders)

- Performed data preprocessing and cleaning on clinical datasets using **Pandas** and **NumPy**, improving data quality for statistical analysis in mental health research.
- Conducted regression analyses and statistical tests to identify correlations between addiction patterns and concurrent mental health disorders.
- Created data visualizations with **R**, communicating complex findings to interdisciplinary audiences.

Jul 2025 – Present

Vancouver, BC, CA

Data Science Intern

Qatar Islamic Bank

- Built Python ETL pipeline that ingested **120k** archived customer emails in **< 4 min**, automating a manual Outlook export and raising processing coverage from **6%** to **98%**.
- Deployed BERT-based topic model (HuggingFace), tagging **18** emergent complaint themes and informing new customer service strategies.

Jun 2024 – Aug 2024

Doha, QA

Software Engineering Intern

Qatar Science and Technology Park

- Prototyped a multi-agent content-generation workflow with Microsoft Autogen that cut long-form SEO blog article draft times from 45 min to **< 5 min** in pilot tests.
- Drafted internal “LLM pattern library” derived from novel prompting techniques, adopted by a VC backed startup to streamline LLM-based task automation for 4 enterprise clients.

Jun 2024 – Aug 2024

Doha, QA

PROJECTS

Speech-to-Text Model | *Transformer, CNN-LSTM Encoder, PyTorch*

2024

- Achieved a **14.2** average Levenshtein distance on LibriSpeech test-clean with a CNN-LSTM + Transformer model architected using PyTorch - achieving **3x** improved error rates over the course baseline.
- Significantly improved iteration cycles by optimizing dropout tuning, cyclic LR, and early stopping
- Managed training on a remote 2x NVIDIA A100 GPU cluster, and MLOps / remote ablation tracking on WandB.

JTorch | *Java*

2024

- Developed a deep learning library in **Java** from scratch, implementing core components such as tensors, forward/backward propagation, activation functions, and neural network layers.
- Engineered a modular architecture that supports easy extension and integration of new features, facilitating future development and research.
- Achieved efficient computation and memory management, enabling the training of multiple-layered neural networks on standard hardware.

AWARDS & ACHIEVEMENTS

Runner-Up Award | *Lifelines Hackathon, CMU-Q*

Feb 2024

- Built a CPR-assistant web app using React and NextJS; Secured **\$1.5k** award as the Runner-Up (4th Place) and an invitation to present to stakeholders from the Qatar Ministry of Health.

TECHNICAL SKILLS

Frameworks and Libraries: HuggingFace Transformers, NumPy, Pandas, PyTorch, React, Ruby on Rails, Scikit-learn

Languages: Java, Javascript, Python, SQL, Swift, TypeScript

Tools: Docker, Git, Google Cloud Platform (GCP), MySQL, PostgreSQL, WandB