Anthony Nguyen

Master's Student in Computer Science

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- 📍 Montreal, QC
- in **LinkedIn**
- ○ **GitHub**
- 💼 **Portfolio**

EDUCATION

- **Bachelor of Computer Science**
  Concordia University
  📅 2021 – 2024 (Completed)
  📍 Montreal, QC

  GPA: 3.57

  Award:
  - 2022-2023 Dean's List

- **Master in Computer Science**
  Université de Montréal
  📅 2025 – 2026 (Expected)
  📍 Montreal, QC

SKILLS

- SQL
- Python
- Java
- C++
- HTML/CSS
- React
- Javascript
- Git
- PyTorch
- PySpark

LANGUAGES

- French
- English
- Vietnamese

WORK EXPERIENCE

Full Stack Developer Intern
January 2025 - April 2025 and September 2025 - December 2025

- Contributed to the development and enhancement of micro-frontends using React.
- Contributed to the development of backend APIs using Java and Kotlin.
- Adjusted unit tests to maintain code quality and participated in bug fixes and production support.
- Actively participated in Agile/Scrum ceremonies, including sprint planning, stand-ups, and retrospectives.
- Worked in a bilingual (English/French) environment, collaborating with cross-functional teams across Canada.
- Developed a strong understanding of the software development lifecycle and continuous delivery pipelines.

PROJECTS

Database Application for Monitoring Employee Health

- Developed a database application system that monitors employee health across different health facilities.
- Designed an Entity-Relationship diagram to illustrate the relationships between various entity sets critical to the application.
- Constructed a comprehensive database schema, detailing all relations and their functional dependencies.
- Implemented 3 triggers to ensure data integrity.
- Implemented and populated the database tables using SQL, followed by testing with 21 transactions and queries to validate system functionality and data integrity.
- Developed a fluid graphical user interface using PHP.
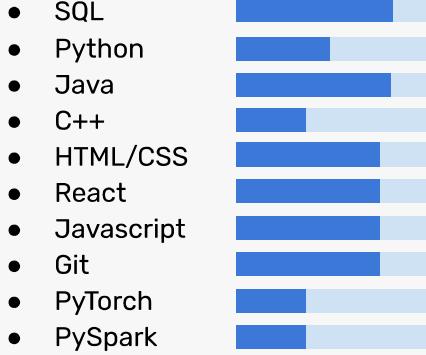- Worked in a team of 4.

CNN for EEG Signal Decoding

- Conducted comprehensive research on EEG decoding and brain-computer interface technologies.
- Designed and implemented a convolutional neural network using PyTorch, optimizing the architecture for EEG signal processing.
- Executed training and hyperparameter optimization, utilizing the Speech Brain MOABB library for benchmarking.
- Analyzed and compared performance metrics, documenting the model's effectiveness relative to state-of-the-art technologies.
- Authored a detailed project report, synthesizing research findings, methodologies, and performance analyses.

CNN for Facial Emotion Classification

- Sourced and augmented datasets of facial images labeled with emotions, including manual labeling to address data gaps.
- Implemented data visualization techniques to analyze class distribution and pixel intensity variations across the dataset.
- Developed and trained a convolutional neural network using PyTorch and Scikit-learn, employing k-fold cross-validation.
- Analyzed performance metrics and the confusion matrix to evaluate model accuracy, and conducted an analysis of bias to ensure fairness in model predictions.
- Worked in a team of 3.