UNIVERSITÉ Concordia UNIVERSITY

INSTITUTE FOR CO-OPERATIVE EDUCATION

Firas Al Haddad

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SKILLS SUMMARY

Programming Languages | Java • JavaScript • Python • C++ • SQL

Frameworks & Libraries | PySpark • Pandas • React • Node.js • Spring Boot • TensorFlow • Tailwind CSS

Applications | Visual Studio Code • Databricks • GitHub • Jira • Azure DevOps • SAP • Power BI

Relevant courses | Data structures and algorithms • Operating systems • System hardware • Databases

Extracurricular activities | Tutor (Tutorax) • Volleyball Coach (Vanier college)

Languages | French • English

EDUCATION

Undergraduate Degree in Software Engineering Co-op   *2023 - 2027*
Concordia University, GPA: 3.35   *Montreal, QC*

DEC in Pure and Applied Natural Sciences   *2020-2023*
Vanier College   *Montreal, QC*

WORK EXPERIENCE

Data Analyst Intern   *2025*
Pratt & Whitney Canada   *Longueil, QC*
- Refactored legacy Databricks pipelines into a single modular PySpark codebase.
- Created reusable functions and added automated test cases, for cleaner workflow organization.
- Unified 20+ data sources into 2–3 clean, analytics-ready DataFrames for Power BI.
- Re-engineered Power BI dashboards to provide clear week-over-week performance insights.

Software Engineering Intern   *2025*
Fonex Data Systems   *Montreal, QC*
- Developed a Python BLE backend using bleak, asyncio, to communicate with optical transceivers.
- Implemented a GATT communication layer to read and write SFP/QSFP EEPROM pages.
- Designed a connection manager that coordinates the BLE backed with a Tkinter GUI using threads.

PROJECTS

Peer Review Web Application   *Concordia, QC*
- Built a full-stack web application using React, Java, and Spring Boot for student peer evaluation.
- Implemented user authentication and role-based access control for students and teachers.
- Designed a team management system where teachers can assign students to specific teams.
- RESTful APIs to handle data persistence, user management, and frontend & backend communication.

Mindfulness & Focus Tracker AI   *Concordia, QC*
- Built a real-time attention detector using React & TensorFlow.js tracking gaze, blink, and head-pose.
- Implemented AI feedback cues (messages & soft audio) triggered by custom attention-drop thresholds.
- Developed a modular detection pipeline with adaptive calibration and adjustable sensitivity settings.
- Optimized performance using WebGL-accelerated models to reduce delay and ensure smooth tracking.