ABDELMALEK ANES

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LinkedIn | GitHub | Website

Languages: French, Spoken & Written | English, Spoken & Written | Arabic, Spoken & Written

SUMMARY OF SKILLS AND QUALIFICATIONS

Front End| React, Tailwind CSS, MUI
Back End| Java, C#, C, C++, Python, JavaScript, TypeScript, NodeJS, SQL, NoSQL
Other| MS Azure, Power BI, Junit, Vercel, Git, Next.js

WORK EXPERIENCE

Embedded Software Developer Intern at Caterpillar / Montreal QC   **Fall 2024 - Winter 2025**

- **Embedded Software Development:** Designed and implemented embedded software applications for autonomous and staffed mining machines using C++, ensuring high performance and reliability
- **Automated Testing Procedures:** Developed automated test procedures to validate software modules, enhancing the reliability and efficiency of the testing process
- **Engineering Documentation Review:** Analyzed requirements, specifications, and validation test plans to align software development with project goals and standards
- **Scaled Agile Collaboration**: Worked in a scaled Agile environment, collaborating with cross-functional teams to optimize development and testing workflows

Software Developer Intern at Bombardier Inc. / Dorval, Montreal QC   **Summer 2023**

- **Advanced Database Management:** Utilize filtering to extract and analyze employee data, employing Power BI and DAX for comprehensive reporting and insights
- **Day-to-Day Task Automation:** Streamline routine processes using Python, Power Automate, and Excel VBA to enhance operational efficiency and accuracy
- **SQL Database Hosting on Microsoft Azure:** Leverage Azure's cloud capabilities to host and manage SQL databases, ensuring scalability, high availability, and secure access to database services
- **Presented Automation Benefits:** Delivered a presentation to senior management outlining automation's efficiency gains, cost reductions, and accuracy improvements for the department

PROJECTS

SmartClass A.I.ssistant / Concordia University, Montreal QC   **Summer 2024**

Develop a CNN to analyze student facial responses in real-time and accurately identify the displayed emotions

Resources/Libraries used: Python, Matplotlib, PyTorch

Othello Strategy Game / Concordia University, Montreal QC   **Summer 2022**

Develop an oriented strategy game with a robust back-end architecture

Resources/Libraries used: Java

EDUCATION

Vanier College - DEC, Health Science   **2019-2021**
Concordia University - Bachelor of Engineering, Software Engineering   **2022-2025**