

Dominico Mendes

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Education

University of Calgary – Calgary, AB

Bachelor of Science in Software Engineering

September 2021 – Present

- **Relevant Courses:** Software Engineering Practices for Data Management, Engineering Design Innovation and Entrepreneurship, Full Stack Web Development, Object-Oriented Principles for Software Development

Skills

Languages: Python, C, C++, SQL, Java, HTML, CSS, JavaScript, RISC-V Assembly

Technologies: GitHub, React, AWS

Tools: Visual Studio Code, XCode, Jupyter Notebook

Projects

University of Calgary – November 2022

MuseumArt Database Management Application | Python, SQL, GitHub, MYSQL Workbench

- Developed a user-friendly interactive **Python** application which allows for access and manipulation of the MuseumArt Database and means of executing **SQL** commands.
- Created the MuseumArt Database using **MYSQL Workbench**, which included the use of appropriate Database Management skills and queries to serve user data.

University of Calgary – November 2022

Machine Learning Model Project | Python (Pandas, NumPy, Matplotlib), Jupyter (Notebook)

- Developed a Machine learning model which implemented the K-Nearest Neighbour method using **Python** and **Jupyter Notebook** to classify real-world data, with a 95% model accuracy.
- Evaluated model accuracy by computing a confusion matrix and successfully tested the model in predicting the class of a new instance.
- Compiled and interpreted data using various Python libraries (**Pandas, NumPy, Matplotlib**) to display readable data statistics to a user.

University of Calgary – April 2023

Schedule Builder Application | Java (JUnit, Hamcrest, Swing), GitHub, SQL, MYSQL Workbench

- Developed a user-friendly interactive **Java** application which builds a schedule based on a user-created **SQL** database.
- Implemented GUI interaction using **Java Swing** to make a user-friendly experience while processing and outputting data based on user input.
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