Mostafa Mahmoud

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WORK EXPERIENCE

University of Alberta   **May 2023 – May 2024**
Junior Research Analyst   *Edmonton, AB*
- Collaborated with researchers to understand their needs and requirements, translating them into user-friendly interfaces and implementing user abstraction to streamline their workflow.
- Conducted data cleaning and preprocessing tasks, ensuring data accuracy, consistency, and integrity for research projects.
- Assisted in the documentation of technical procedures, troubleshooting guides, and knowledge base articles to improve efficiency and promote self-help among researchers.
- Provided comprehensive technical support to researchers, troubleshooting and resolving hardware and software issues related to their computers and research instruments.

EDUCATION

University of Alberta   **Jan, 2025**
BSc. Specialization in Computer Science   *Edmonton, AB*
- Courses: File and Database Management, Algorithms and Data Structures, Formal Systems & Mathematical Logic, Visual Recognition, Information Retrieval, Object-oriented Design, Machine Learning & Intelligent Systems, Natural Language Processing

CERTIFICATIONS & SKILLS

- **Certifications:** Google Data Analytics Professional Certificate
- **Languages (Known):** Python, Java, C, SQL, HTML, Julia, R
- **Languages (Learning):** JavaScript(React, TypeScript), Swift, C++
- **Frameworks:** Pandas, Numpy, PyTorch, Tensorflow, NoSQL, MySQL, MongoDB, Git
- **Soft Skills:** Quick and Eager Learner, Strong Communication, Efficient Time Management, Work well individually as well as a part of a synergetic team.

PROJECTS

Streaming Service Data Manager
Python, SQL
- Created the backend of a streaming service allowing users to log-in and interact with the streaming service as well as editors being able to edit the items in the streaming service all while maintaining the database accordingly using SQL.

MNIST/CIFAR-10 Image Recognition and Classification
Python, Numpy, PyTorch, Tensorflow
- Created a supervised learning system using PyTorch and Tensorflow in which I implemented convolutional neural networks for image recognition and classification tasks using frameworks such as YOLOv5, and trained the models on MNIST, double MNIST, and CIFAR-10 datasets. Achieved high accuracies on the tasks.

Web Based Portfolio
JavaScript (React), HTML, TailwindCSS
- Developed a web-based portfolio (https://MostafaMahmoudPortfolio.com/) using the JavaScript framework React, TailwindCSS, and HTML to showcase my skills and projects to potential clients and employers.