

# Mahdi Metwally

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## Profile

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Ambitious Computer Science graduate from Carleton University specializing in Data science, Cloud computing, and Backend Engineering. Proven ability to succeed in fast-paced, collaborative environments with a passion for delivering innovative data-driven solutions to real-world problems.

## Education

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**BCS. in Computer Science, Carleton University**

Oct 2018 – Dec 2023 | Ottawa, ON

- Minor in Mathematics and Statistics.
- Relevant Coursework: Data Structures, Algorithms, Machine Learning, Web Development, Database Systems, Statistical Analysis.

## Employment

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**Blackberry, Full Stack Software Engineer Intern**

Jul 2023 – Dec 2023 | Ottawa, ON

- Worked collaboratively in an Agile development environment, actively participating in sprint planning, daily stand-ups, and code reviews.
- Developed backend APIs using Python and JavaScript and integrated cloud services to enhance data analytics tools.
- Developed a data analytics tool using Python, JavaScript, HTML, and Google Chart API to monitor QNX software build.
- Investigated and reported on the performance of key safety features of QNX, operating in 100 million cars worldwide, leading to a 15% system reliability improvement.
- Collaborated in team meetings to share insights and develop innovative solutions.

**Shoreway Construction Ltd., Construction Manager**

Apr 2022 – Aug 2024 | Ottawa, ON

- Successfully scaled operations, securing contracts through effective marketing strategies and client relationship management
- Automated administrative tasks with python scripts, improving overall operational efficiency by 20%.
- Oversaw multiple renovation projects concurrently, ensuring adherence to timelines, budgets, and quality standards.
- Built and led a team of in-house contractors and subcontractors to create a collaborative and efficient work environment.
- Improved accuracy and efficiency in financial reporting by Introduced QuickBooks for financial management.

## Technical Projects

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**Dog Breed Image Classification Tool (2023).**

- Developed a Python-based tool that leverages Machine Learning techniques (Neural Networks) that classifies dog breeds based on input images by achieving accurate and automated recognition. Python (TensorFlow).
  - Technologies Used: Python (TensorFlow, Keras, PyMath)

**Stock Market Analysis Android Application (2023).**

- Designed and developed an Android application with an Intuitive user interface that allows users to search and browse stocks and their respective information and metrics
- Integrated APIs for real-time stock data retrieval, ensuring accurate and up-to-date information.
  - Technologies Used: Java, Kotlin, XML

## Additional Projects and Awards

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**Teaching Assistant, Carleton University (Fall 2022):**

- Conducted Weekly Tutorial sessions to create discussions and problem-solving activities that encouraged active participation and deeper understanding among students.

## Technical Skills

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- **Languages & Frameworks:** Python (TensorFlow, Keras, PyMath, Flask, Django, Pandas), JavaScript (React, Node.js, jQuery), Java (Spring Boot, JUnit), C/C++, HTML, CSS, PHP, TypeScript, C#, Ruby.
- **Cloud & DevOps:** AWS, Azure, Docker, Kubernetes.
- **Databases:** MySQL, GraphQL, SQL/NoSQL.
- **Machine Learning & Data Science:** TensorFlow, Keras, Scikit-learn, SAS, Google Chart.
- **Other Tools:** Linux, RESTful APIs, MATLAB, Prolog, Git.