Munir Awwad

awwadm2@mcmaster.ca | (xxx) xxx-xxxx | Toronto, Ontario
linkedin.com/in/munirawwad | github.com/MunirAwwad | munirawwad.com

Highlights of Qualifications

- Completed third year of the Computer Science CO-OP (Honours) program at McMaster University.
- Programming experience in Python, Java, C, C#, HTML, CSS, JavaScript, and React.
- Experience with Git/GitHub, relational databases, Linux Systems, and networking.
- Familiar with the SDLC and Agile development principles with frameworks such as Scrum and XP.
- Self-learner with an enthusiasm for acquiring new skills, exhibited through self-studying web and app development.

Education

B.A.Sc. Computer Science CO-OP (Honours)

Sept 2022 - Apr 2027

McMaster University, Hamilton ON

- **GPA:** 3.79/4.00 (Dean's Honour List)
- **Highlights:** Data Structures, Algorithms and Complexity, Object-Oriented Programming, Software Development Life Cycle, Databases, Networks and Security, Numerical Methods, Machine Learning, Natural Language Processing.

Technical Skills

- **Languages**: Python, Java, C, JavaScript, HTML, CSS, SQL, C#, Haskell, Bash, Julia, PHP, R.
- **Frameworks and Libraries:** React.js, React Native, NumPy, Pandas, PyTorch, Scikit-learn, Gensim, NLTK, JUnit.
- **Version Control:** Git, GitHub, GitHub Actions, branching, merging, resolving merge conflicts.
- **Databases:** SQL, IBM Db2, ER diagrams, schema design, schema normalization / decomposition, execution plans.
- **Linux Systems**: Multiprocessing, multithreading, GCC, Bash scripts, Makefiles, kernel module development.
- **Networking**: OSI model, TCP/IP model, socket programming, Cisco Packet Tracer.
- **Software Development:** SDLC, UML, Agile development, Scrum, XP, plan-driven development, Waterfall.

Projects and Coursework

- **Weather Application (Personal Project)**:
  - Developed a weather app for Android that allows users to enter city names and utilizes asynchronous API calls to fetch and dynamically display relevant weather data through the app's user interface.
  - Built using React Native and the Expo framework.
- **Digit Classification and Image Denoising with Convolutional Neural Networks (University Coursework):**
  - Constructed and trained CNNs that leverage kernels and pooling to classify images of single digit building numbers into the classes 0-9, as well as CNNs that denoise these images when Gaussian noise is applied.
  - Implemented in Python using the PyTorch library, achieving an accuracy score of 92% on a test set of 26,000 images for classification, and a mean squared error loss of < 0.01 on a test set of 15,000 images for denoising.
- **Java Library for 2D Collision Detection (University Coursework):**
  - Created a collection of Java classes and interfaces that implement collision detection between shapes and between more complex collections of shapes, applying different object-oriented design patterns throughout.
  - Code written in Java, utilizing the JUnit framework to create unit tests and verify code functionality.
- **To-Do List Chrome Extension (Personal Project)**:
  - Developed a Google Chrome extension to help users manage tasks and task progress from within the browser.
  - Created using HTML, CSS, and JavaScript.