

Farah Madkour Ibrahim

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EDUCATION & Awards

York University, Toronto, ON, Canada - SOFTWARE ENGINEERING

Expected :May,2026

- Deans Honor List

- Awards- The Lassonde Scholarship x 2 (totaling \$30,000)- Lassonde scholar

EXPERIENCE

- **IT Software Analyst - Condrain Group, Toronto, Ontario, Canada (August 2024 – Present)**

- Managed “Olympus” software for ConCast (under Condrain Group), coding, debugging, and implementing updates based on business requests to ensure the platform’s infrastructure, logic, UI consistency, and functionality align with company standards. I oversee deployments using **Docker**, **Azure DevOps**, and Git, ensuring smooth integration and performance.

- Specialized in API development and integration**, frequently troubleshooting and coding API solutions while providing real-time updates to team members to maintain seamless operations.

- **Software Research Specialist - Condrain Group, Toronto, Ontario, Canada (March 2024 – August 2024)**

- Developed a WiFi token guest system, including its front-end website, back-end, admin portals, and databases.(created prototypes using machine learning software: Streamlit, python, php, mssql, mysql)

- Created and updated internal and external websites using the latest software.

- Built prototypes using workflows (**Power Automate, OKTA**) to automate company processes.

- Created prototypes for software systems and **optimized Snowflake** code, **reducing execution costs by 10%**.

- Analyzed **FinTech** trends to explore opportunities for integrating financial innovations across operations

- Led extensive research initiatives** across diverse topics, including cybersecurity protocols (e.g., BYOD protocols and phishing response strategies), and **created detailed reports** for each topic.

- **IT Director- Lassonde Engineering Society, York University, Canada (May 2024- Present)**

- Developed and maintained** the **website**, ensuring it remains user-friendly, up-to-date, and aligned with the needs of students and events.

- Led troubleshooting and technical support for the website, resolving issues promptly to ensure minimal downtime

- **Software Intern- Abu Dhabi Marine Sports Club (December 2023 – January 2024)**

- Collaborated with the software team on website development, troubleshooting, updates, and gained practical insights into software best practices while contributing to feature implementation.

- Enhanced the software team's capabilities with full-stack survey systems, MySQL database solutions, proficiency in Bootstrap, HTML, and CSS.

- Contributed to enhancing the club's technology ecosystem, bridging software development and maritime industry needs.

- **Finance Executive -Egyptian Student Association, York University(October 2022-Present)**

- Used Excel to manage the organization's finances, including budgeting and record-keeping, filling out forms with meticulous attention to detail

- Ensured adherence to financial policies and reporting requirements through dedicated financial management software and university systems.

- **Team Leader- UNHACK 2022 Team Leader- Toronto, Ontario, Canada (November 2022)**

- Led a team in designing an innovative project to address campus hunger, gathering and analyzing data to assess impact and adapting strategies.

- Presented project objectives and outcomes to various audiences, while also documenting project activities and maintaining records of attendance, incidents, and noteworthy achievements.

PROJECTS

- **Customer Survey Management System**

- Developed a responsive and polished (full-stack) Customer Survey Management System using HTML, CSS, Bootstrap, PHP, and MySQL, ensuring a user-friendly front-end experience.

- Utilized PHP for seamless server-side processing, integrated MySQL for efficient and secure data storage, and designed a secure employee login portal with restricted access to survey response data.

- Ensured robust security with SHA-1 encrypted passwords, bcrypt, and strict session management for improved authentication. Employed XAMPP for seamless development and testing, conducting regular security audits to ensure application resilience.

- **Java Restaurant Reservation Program**

- Collaborated on a full-stack application, utilizing JUnit for testing, Git for version control, and JavaFX for the frontend

- Managed backend data with PostgreSQL for reliability, developed separate portals and login functionalities for customers and restaurant owners.

- **CPU Architecture Design (Verilog)**

- Developed a complete CPU architecture using Verilog, including modules for multiplexers, adders, ALU, and control units.

- Implemented stages for instruction fetch, decode, execute, memory access, and write-back, successfully designing and testing the chip.

SKILLS

- **Programming Languages & Design:** next.js, node.js, python, C, assembly, CSS, MATLAB, HTML, php, RISC-V, Verilog / Fusion 360, TinkerCAD, 3D printing .

- **Concepts and experience:** advanced object oriented programming, bootstrap, jQuery , Linux, Breadboards and circuits analysis, Sensor DAQ, Arduino boards, Sensors and actuators, LabVIEW software, LoggerPro, mechatronics, data and algorithms, software development, JUnit testing, Git

- Proficient in digital, verbal, and interpersonal communication, skilled in cross-functional collaboration and technical concept conveyance

- **Languages and Hobbies:** English (Fluent), French, Arabic/ Black belt in taekwondo (Kukkiwon-certified)

•**Community and Leadership:** Class representative for the Engineering mechanics and Data Structures courses/ contributed to event planning and teaching lower grades