

# Ishak Megatli

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## Work Experience

- IT Analyst**, Shared Services Canada (government) – Montreal, QC May 2025 - December 2025
- Analyze internal processes and **develop VBA tools** to facilitate tracking of payments, orders, and contract terms.
  - Generate reports and dashboards with **Power BI** to monitor and analyze team data
  - **Reduced workload** related to email management by **12%** through the creation of a VBA automation tool for automatic message sorting
  - **Decreased time spent** comparing old and new invoices by **50%** by developing a customized VBA tool per supplier, capable of automatically extracting key data and discrepancies

## Education

- École de technologie supérieure**, Montreal Bachelor's Degree in **Software Engineering** Sept 2023 – Present  
University Pathway in Computer Science 2023
- **Courses taken:** Data Structures and Algorithms, Object-Oriented Design, Testing and Maintenance, Software Analysis and Design, Database, Requirements Analysis and Specifications

**Certifications :** Web Development Training, Udemy (62h) | **Git fundamentals**, DataCamp (7h) | **Microsoft Azure fundamentals**, DataCamp (9h) | **Excel fundamentals**, DataCamp (16h)

## Technologies

**Languages:** C, Java, Python, JavaScript, VBA, LaTeX

**Other technologies :** React, Node.js, jQuery, Express.Js, SQL, PostgreSQL, Git, Power BI, Excel, VisualParadigm, MatLab, Wireshark, Cisco Packet Tracer, SIGMA, SAP

## Personal and School Projects

- Remote-Controlled Robot Project with Disc Launcher** | [GitHub](#) 2023
- Develop controls and functionalities for the controller, movement, and aiming of the robot
  - **Increased** the disc launcher shooting **accuracy** by **15%** **through optimization** of the joystick command delay
  - **Improved** the vehicle's speed and **maneuverability** by **30%** by designing a removable disc launcher system dedicated to the competition course trial competition

**Technologies used:** C, ATmega, SolidWorks, AutoCAD

- 9x9 Ultimate TicTacToe AI** | [GitHub](#) 2025
- Development of an artificial intelligence to play an extended Tic-Tac-Toe game (9x9) in Java
- Implemented the **MinMax algorithm with alpha-beta pruning** to optimize real-time decision-making
  - Designed an evaluation function combining various weighted criteria to analyze the game position
  - **Increased** the AI's **win rate** by **20%** by optimizing the evaluation function and decision-making strategy
  - **Reduced calculation time** per move **from 4 to 3 seconds** while maintaining the same performance level

- Chrome Extension "Study Tracking"** 2024

Development of a Chrome extension to track study and break times by generating productivity reports

- Create a timer to track study and break sessions
- Use the Chrome API to locally save study sessions, manage alarms ...
- Implement a feature to retrieve data after closing the tab
- Develop a feature to export a report of study sessions

**Technologies used:** Chrome API, JavaScript, HTML, CSS

## Clubs and Volunteering

**Member of the ETS Volleyball Team (SHARKS)**

**Volunteer for the Montreal Beach Volleyball Pro Tour in hospitality and logistics**

**Volunteer with Para-sport as scorekeeper**

**Volunteer at the Metropolitan Montreal Association for Sports for the Blind (ASAMM)**