

# Pearl Natalia

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## TECHNICAL SKILLS

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**Languages:** C, Java, JavaScript, Python, HTML/CSS, PHP

**Hardware:** Microcontrollers, AR Headsets, Arduino, Makeblock, EV3

**Developer Tools:** MySQL, Android Studio, Bootstrap, MakeCode, Pygame, Vercel, Git, VS Code, GitHub

## EXPERIENCE

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**Chairwoman** May 2019 – Present

*McMichael Canadian Art Collection - Volunteer Committee*

*Vaughan, ON*

- **Increased team size by 46%** in one year through active recruitment and consistent advertising
- Directed volunteer roles for a committee of **150+ members** involved in auctions, galas, and art classes

**Programming Instructor** June 2022 – Sept 2023

*Code Ninjas*

*Vaughan, ON*

- Instructed game development using JavaScript and Scratch to **90+ students** ages 4-14
- **Expanded junior program by 37%** by redesigning a children's programming curriculum for ages 4-7
- Conducted workshops and developed projects involving Arduino, Scratch, Makeblock, and Makecode

**Logistics Executive** June 2021 – June 2022

*YRHacks Hackathon*

*Richmond Hill, ON*

- Planned events with sponsors (Cohere, AMD, IBM) for a district-wide hackathon of **350+ students**
- Negotiated and secured a **\$2500** Specialist High Skills Major sponsorship for the prize budget

**Physiotherapy Intern** Sept 2021 – Feb 2022


*MedRehab Group Physiotherapy*

*Vaughan, ON*

- Enhanced functional abilities and patient satisfaction by independently performing physiotherapy treatments
- Tracked physical improvement by charting patient response to therapies and exercises

## PROJECTS


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**BrainScape**  | *JavaScript, HTML/CSS, Bootstrap, Vercel, GitHub (SheHacks - Hackathon Winner)* Jan 2023

- Built a **web platform** with course-specific study rooms and simulated environments to boost student productivity
- Created a login interface, chatbox, search bar for available rooms, and camera/microphone with **permissions**

**Résuview**  | *MySQL, HTML/CSS, PHP, Git* Oct 2023 – Dec 2023

- Developed an **AR environment** for networking events, showcasing individuals' résumé alongside their face
- Built a full-stack platform with SQL database that sends **real-time user information** to the AR environment

**AutoRithm**  | *EV3, C, Ultrasonic Sensor, Light Sensor, PHP, Distance Matrix API, HTML/CSS* Nov 2023

- Constructed an EV3 robot to detect food packages with sensors, **automating food assembly** for a nonprofit
- Designed a software system to match volunteers with nearby pick-up locations, streamlining food delivery times

**SPACE**  | *Android Studio, Java, Bootstrap, PHP, HTML/CSS, Vercel* June 2022 – Aug 2022

- Developed and launched a budgeting app on **Google Play**, coupled with an accompanying website
- Programmed a coupon/notes page, fact generator, and tax/tip calculator to enhance user savings when shopping

## EDUCATION

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**The University of Waterloo** Sept 2023 - Present

*Bachelor of Software Engineering (BSE)*

*Waterloo, ON*

- Sponsorship Director for Waterloo Women in Engineering
- Courses: Programming Principles (C), Data Abstraction (C++), Digital Circuits and Systems (VHDL), Linear Circuits, Methods of Software Engineering

## AWARDS

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**Aspirations in Computing – Ontario Recipient** May 2023

*National Center for Women and IT*