# Pearl Natalia

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### TECHNICAL SKILLS

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

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

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

# Experience

Chairwoman May 2019 – Present

McMichael Canadian Art Collection - Volunteer Committee

Vaughan, ON

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

• 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

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

- $\bullet \ \ \text{Developed an $\mathbf{AR}$ } \mathbf{environment} \ \text{for networking events, showcasing individuals' r\'esume 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

SPAVE & | Android Studio, Java, Bootstrap, PHP, HTML/CSS

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

#### The University of Waterloo

Sept 2023 - Apr 2028

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

# Aspirations in Computing – Ontario Recipient

May 2023