

# Maria Pavlovic

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## SKILLS

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- **Languages:** Java, C++, Python, Swift, JavaScript, HTML, CSS
- **Technologies & Tools**
  - Experienced: Eclipse IDE, XCode, Visual Studio, MS Word, MS Excel
  - Familiar: React, VHDL, Linux, Raspberry Pi, Figma

## PROJECTS

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### iOS Application

*Swift, XCode*

- Developed a "Pomodoro" timer that helps the user study more efficiently
- Tracks a 25-minute study period followed immediately by a 5-minute break period

### Soil Moisture Sensor

*Raspberry Pi, Linux (Raspbian), Python*

- Used sensors to read the moisture in soil, and connected them to a Raspberry Pi
- Automatic emails sent to the user to alert them to water their plants if the soil moisture reading is dry

### Hackathon Project

*HTML, CSS, JavaScript*

- Created a website to help students organize deadlines and manage stress
- Won first place at a local high school hackathon for having the best presentation of our final product
- Included features such as a to-do list, an embedded Google Calendar, and a "de-stress" page with interactive visuals

### AI Battle Robot

*Java*

- Created a robot simulator that tracked battles with opponents to develop a strategy when to attack and when to defend
- Robot won a battle against 20 opponents in a competition

### Encryption and Decryption Program

*C++*

- Developed a binary to text encryption (ASCII Armor) program that takes in text and a unique key that allows for both encryption and decryption
- Used binary-to-text encoding

## EXPERIENCE

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### Computer Science Club

Sep 2018 – June 2019

*Executive*

*Oakville, ON*

- Devised weekly lessons on topics such as app development and website development
- Taught students how to make Android phone applications via MIT App Inventor
- Taught students how to make a website using HTML, CSS, JavaScript
- Organized a month-long website design competition (size, result)

## EDUCATION

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### University of Waterloo

September 2019 – Present

*Bachelor or Applied Science in Computer Engineering*

*Waterloo, ON*

- Relevant Courses: Fundamentals of Programming, Linear Circuits, Digital Circuits and Systems

## INTERESTS

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- Investing through online stock market simulator
- Piano (Level 8 RCM)
- Photography

## LANGUAGES

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- English
- French
- Serbian