

# Symoom Saad

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🌐 <https://psymoom.github.io/react-portfolio/> • 🔄 PSYmoom

## Skills

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- **Languages:** Assembly, C, C++, CSS, Go, HTML, Java, JavaScript, Prolog, Python, Scheme
- **Software:** AutoCAD, Fusion 360, Inkscape, MATLAB, Multisim, Quartus II
- **Hardware:** Altera DE2-115 board, Arduino UNO, Raspberry Pi
- **Others:** 3D Printing, Android Studios, Firebase, Git, Laser Cutting, LaTeX

## Projects

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- **Remote Server Manager** **Personal Project**  
*JavaScript* *June 2020 – August 2020*
  - Developed an app using Discord.js to allow a Discord group's members to seamlessly start and stop a multiplayer server remotely
  - Implemented features using a promised based system to efficiently handle the asynchronous communication
  - Utilized Discord roles to only allow specific people to have to access the server's admin commands
  - Implemented a feature to allow members to view the current multiplayer server population remotely
- **Package Pickup Scheduler** **hack:now**  
*Android Studios, Firestore* *April 2020 – April 2020*
  - Developed an app using Android Studios to help maintain social distancing in apartment complexes during COVID-19 by allocating different package pickup times for the tenants
  - Designed a UI for entering the names of the mail/package recipients
  - Implemented Firestore to store and retrieve email addresses of the tenants
  - Utilized a Java package which constructs and sends an automated email to relay the pickup times
- **Environment Data Logging Vehicle** **Personal Project**  
*Python, Raspberry Pi* *April 2019 – September 2019*
  - Built a vehicle with Raspberry Pi in Python which can be controlled using a phone and can display video feed and sensor values on a local network
  - Integrated the BlueDot application to allow users to precisely control the speed and steering of the vehicle up to 10 meters away using their Android phones via Bluetooth
  - Utilized the http.server class to help locally host a web page to display a video feed and sensor values in real-time
  - Programmed the Pi to retrieve and log data during its drive and then plot the various data sets against time for ease of data analysis
  - Utilized an ESC to accurately control the speed of a brushless DC motor

## Work Experience

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- **Server** **Your Independent Grocer**  
*Ottawa, ON* *July 2018 – Present*
  - Developed multitasking skills to help ensure food was continuously being cooked and served as required.
  - Distributed chores among coworkers based on their strengths.

## Education

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- **BASc in Electrical Engineering /BSc in Computing Technology** **University of Ottawa**  
*Ottawa, ON* *2018 – 2023*
  - Dean's Merit scholarship
  - Admission scholarship
- **High School Diploma** **Lisgar Collegiate Institute**  
*Ottawa, ON* *2015 – 2018*
  - Grade 12 Physics scholarship