# Patrick V. Mediodia

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## Skills

- **Front-end:** Capable of building front-end web applications using HTML, CSS, and JavaScript; Able to use libraries such as Bootstrap and currently learning React and Tailwind.
- **Back-end:** Proficient in creating back-end web applications using C# ASP.NET framework (MVC, Web API, Web Forms) and Python Flask for Web APIs.
- **Native Mobile Applications:** Proficient in developing native mobile applications for the Android Platform using Java.
- **Cross-Platform Mobile Applications:** Competent in creating cross-platform applications that will work on Android and iOS using Flutter and Xamarin to reach more users and for easier development through a single codebase.
- **Databases:** Knowledgeable in using SQL databases and Firebase to store data in an efficient and scalable manner.
- **Tools:** Able to use version control systems such as Git and GitHub for easier project management and collaboration.
- **Internet of Things:** Can interface different hardware devices such as Arduino, WeMos, and Raspberry Pi through serial and Web APIs to create functional Internet of Things (IoT) systems.
- **Networking:** Capable of creating and securing basic networks through Cisco CCNA certification.
- **IT Knowledge:** Possesses general IT knowledge and troubleshooting skills through CompTIA ITF+ and A+ certification.

## Projects / Experience

### Software Developer Intern                                                                            March 2023 - Present
*iRipple Inc.*
- Tasked to develop C# desktop applications to be used by clients in a production environment.
- Automated the process of updating software on point-of-sales terminals resulting in time savings of up to 80%.
- Facilitated the migration and documentation of new modules for legacy systems.

### Whizzy: A Google-Assistant Based Smart Classroom Assistant                          November 2022 - Present
- Developed a voice assistant for our capstone project. Whizzy enables teachers to easily setup and control classroom devices, quick searching of information, and aid the teacher's discussion.
- Used Raspberry Pi and Arduino for the hardware which runs the python script for the voice assistant. For the web application, React was used for the front-end, Strapi for the back-end, and is deployed on Amazon Web Services.

### iCHECK Startup                                                                                        October 2021 – July 2022
- Conceptualized iCHECK with fellow MMCL students, a digital platform for official IDs, documents, and credentials to enable easy sharing, ensure authenticity, and reduce the usage of paper.
- Won 1st Place in the Philippine Startup Challenge 2021 Regionals Student Category.
- Won 5th Place in the Philippine Startup Challenge 2021 Nationals Student Category.
- Developed the mobile application and website using Flutter for the front-end, Riverpod for state management, and Firebase for the database and back-end.

### Library Management System                                                                                March - May 2021
- Created a system for a school project to enable librarians to efficiently manage the library system, also allowing ease of borrowing and returning books for the users.
- Used C# ASP.NET Webforms & Web API for the back-end; MSSQL for the database; HTML, CSS, Bootstrap, and JavaScript for the website front-end; Java for the Android application and deployed on Azure cloud services.

## Education

### College – Mapua Malayan Colleges Laguna                                                      August 2019 – Present
B.S. Information Technology                                              Consistent Dean's Lister and President's Lister

### Senior High School – Mapua Malayan Colleges Laguna                                    June 2017 – May 2019
Information Communications Technology Strand                                                     Graduated with Honors

## Affiliations

### Mapua MCL Chapter - Association for Computing Machinery (MMCL-ACM)           August 2020 – Present
Executive Committee – Treasurer S.Y. 2021 – 2022