JOHN RUSSELL A. CARAGAY

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EDUCATION

Technological Institute of the Philippines – Manila
B.S. Computer Engineering
June 2019 – Present

San Sebastian College - Recoletos de Cavite
STEM (Science, Technology. Engineering and Mathematics)
June 2017 - April 2019

SKILLS

- Experienced in programming languages such as **C++, Python and JavaScript**.
- Built static Front-End Projects using **HTML5, CSS3, JavaScript,** and **Bootstrap 5**.
- Developed Back-End Projects using **Node.js**, and **Express.js**
- Utilized programming tools such as **Git**, and **Figma**
- Managed Database Systems using **MySQL**.
- Operated in Data Analysis using **Python**
- Built Embedded Systems using **Arduino** microcontroller.
- Experienced in Android Development using **Android Studio, Java,** and **SQLite**.
- Experienced in designing circuits using **TinkerCAD** software.
- Proficiency in **Microsoft Office** and **Google Workspace**.
- Demonstrated strong leadership skills by overseeing the planning, execution, and delivery of multiple projects.

SEMINARS AND TRAININGS ATTENDED

- The Complete 2023 Web Development Bootcamp — *Udemy: Online Course, Present*
- Responsive Web Design — *freeCodeCamp: Online Bootcamp, August 26, 2022*
- Full Stack Web Development with VueJS and Java Spring Boot — *TIP – Manila, June 29, 2022*
- JavaScript — *Sololearn: Online Course, March 30, 2022*
- Responsive Web Design course — *Sololearn: Online Course, December 21, 2021*
- CSS course — *Sololearn: Online Course, November 10, 2021*
- HTML course — *Sololearn: Online Course, July 11, 2021*
- LearnX: Code to Azure — *Microsoft Teams, May 20, 2021*
- LearnX: Collaboration Using VS Code Live Share and GitHub — *Microsoft Teams, May 20, 2021*
- LearnX: Git and GitHub — *Microsoft Teams, May 20, 2021*
- Python Core course — *Sololearn: Online Course, July 25, 2022*

CERTIFICATIONS

- TIP-Manila - Full Stack Web Development with VueJS and Java Spring Boot
- Solo Learn - CSS Course.
- Solo Learn - HTML Course.
- Solo Learn - Python Core.
- Solo Learn - JavaScript.
- Solo Learn – Responsive Web Design.
- FreeCodeCamp – Responsive Web Design
- Cisco Networking Academy - CCNAv7: Introduction to Networks
- Cisco Networking Academy - CCNAv7: Switching, Routing, and Wireless Essentials
- Cisco Networking Academy - CCNAv7: Enterprise Networking, Security, and Automation
- Cisco Networking Academy - PCAP - Programming Essentials in Python.

ACHIEVEMENTS

- Graduates with High Honors Scholarship — *June 2019 – Present*
- President's Lister — *First Semester, 2022-2023*
- President's Lister — *First Semester, 2021-2022*
- Dean's Lister — *First Semester, 2020-2021*
- Graduated with High Honors (SHS) — *April 2019*
- With High Honors (Grade 12 1st and 2nd Semester) — *June 2018 - April 2019*
- With Honors (Grade 11 1st and 2nd Semester) — *June 2017 - April 2018*
- Gold Medalist Graduate (JHS) — *June 2016 - April 2017*

AFFILIATIONS AND ORGANIZATIONS

- **Computer Engineering Student Society** *Member, 2022 - Present*
- **Society of Scholars** *Member, 2019 - Present*
- **Scimath Circle** *Member, 2017 - 2019*
- **Supreme Student Government (SSC-rDC)** *Grade 11 Level Representative, 2017 – 2018*

DESIGN PROJECTS COMPLETED / RESEARCH

Student Borrower System for Physics Laboratory
This project aims to make the current borrowing system of the Physics Laboratory at San Sebastian College-Recoletos de Cavite (SSC-RdC) automated. The project has a database system with graphical user interface that allows the laboratory custodian monitor and process the information about the borrowed or returned item at the physics laboratory with greater accuracy and efficiency. Each student has their own physics identification card that contains their personal information and borrowing history. Lastly, the system also utilized QR Codes to store the identification card, and equipment information.

Online Reservation System: Supremo Barber
This project is an Online Reservation System for Supremo Barbers - Sta. Cruz, which utilizes a database to aid in contact tracing with customer information and to benefit the owner's organization in terms of handling customers and adhering to government health regulations. The webpage displays all the information needed by customers, as well as various services that the shop has to offer. Registered customers may efficiently request appointments and accept or reschedule in case the admin rescheduled the previously requested appointment. Upon confirmation of the appointment, the system will issue a health checklist form, that is required for contact tracing. The developers have included an authorization remark which affirms that upon confirmation, the customer is aware that the information provided is protected by the Data Privacy Act of 2012

HawkAI: Automated Road Accident Monitoring and Alarm System using Real Time CCTV Footage and Deep Learning
This project aims to help decrease the delay of medical response and crash details information to the authorities. The main objective of this project is to create a device that will instantly alert the monitoring team and relay the information to the responders about the accident. It relates to arrangement or adaptation of emergency signal devices with detection, alert system, and navigation on video surveillance, particularly on CCTV located at command/central station/s. A device that automatically sends an alert signal to the authorities using LED, LCD Display, Buzzer, and SMS notification if a road accident is detected in the system. The system has a trained machine learning model that is able to detect if a road accident has occurred.