EDMOND YANG

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Education

University of Waterloo **Expected 2027**
Candidate of B.A.Sc. in Computer Engineering, Honours (2B) *Waterloo, Ontario*

Experience

Mero Technologies **January 2024– April 2024**
Data Analyst & Implementation Specialist *Toronto, Ontario*
- Facilitated software efficiency of BLE & LoRaWAN networking systems, resulting in a **20%** increase in RSSI calibration loading times between multiple geofence data signals
- Analyzed sensor data points to optimize signal coverage and motion-tracking of IoT devices using SQL and Python
- Led on-site network system installations, ensuring proper signal/gateway connectivity throughout the building
- Created monthly reports for client distribution with proper follow-through of customer KPIs to improve engagement within our product

Generis Group **May 2023 – August 2023**
IT Developer *Toronto, Ontario*
- Led SEO optimization of over 20 micro sites by overhauling on-page performance issues, resulting in a **15%** increase in search term rankings (JavaScript, PHP, HTML/CSS)
- Developed an automated chatbot (HubSpot API) to streamline delegate & sponsor in-bounds and reduce redundancy in the amount of contact form entries
- Processed data of over **5,000+** event attendees using Excel and WordPress to enable client management of summits
- Provided technical support to over **50+** in-office workers with software application issues and computer hardware troubleshooting across the team's Toronto and Berlin (virtually) locations

FIRST Robotics **November 2021 – 2022**
Software Developer *Toronto, Ontario*
- Worked in a team of **3** programmers to implement and revise Java code for the FRC competition robot
- Organized GitHub repository with FRC documentation and relevant classes to delegate specific tasks to each member
- Integrated the compressor API to enable functionality with the pneumatic and arm components of the robot
- Implemented and debugged code to function with the swap of **TalonSRX** to **TalonFX** motor controllers

Projects

Generis Bot - Ticketing System & Chat Bot **August 2023**
- Led chat-bot and ticketing system development using HubSpot API
- Facilitated website navigation for delegates and sponsors and eliminated redundant form entries for the operations team
- Presented and launched project implementation to company's COO and account/sales managers for final approval

Plantum - IoT Plant Monitoring Device | GitHub | Link **December 2022**
- Synthesized a portable plant monitoring device that measures the soil moisture, humidity, and brightness of a plant's surrounding environment in real-time using C
- Implemented an STM32 micro-controller, DHT22 humidity & temperature module, photo resistors and soil moisture sensor to interpret data from external outputs and display them accordingly on a mini LCD monitor

LooFi | GitHub | Link **August 2022**
- Developed a LoFi music web application geared for Waterloo students to listen to while relaxing or studying
- Structured website layout (HTML, CSS, JavaScript, Bootstrap), and implemented responsive pages to be compatible with different media screens

Perfect Salon Business Website | GitHub | Link **June 2022**
- Designed business website to build company's digital presence while garnering over **75+** unique monthly viewers
- Implemented various libraries (SwiperJS and GLightbox) to refine the display functionality of images in various sections of the website (HTML/CSS, JavaScript, Bootstrap)

Technical Skills

Languages : C/C++, Java, JavaScript, Python, HTML/CSS, SQL, PHP, VDHL, MATLAB
Tools & Frameworks: Git, TablePlus, Wordpress, GDB, Valgrind, Bootstrap
Interests: Mobile Development, Game Development, Frontend, Speedcubing