

Markiyan Varhola

mvarhola.github.io

Email : mvarhola@hawk.iit.edu

Mobile : +1-773-396-8865

EDUCATION

- **Illinois Institute of Technology** Chicago, IL
Bachelor of Science in Computer Science August 2014 – May 2018
- **Hanyang University** Seoul, South Korea
GE3 Exchange Program – Computer Science Spring 2016 and 2017

EXPERIENCE

- **IIT Real-Time Communications Lab** Chicago, IL
Project Developer January 2018 – Present
 - **Indoor Location System:** Developed and maintained firmware for beacons based on Arduino hardware to broadcast Bluetooth Low Energy signals in order to aid with locating a user while inside a tall building.
 - **BOSSA Platform:** Maintained the software and back end database for platform that performs calculations of a user's location based on the strength of nearby Bluetooth beacons.
 - **Device Deployment:** Monitored device status, replaced low battery or damaged beacons, coordinated device placement procedures.
 - **Team Management:** Coordinated a team responsible for working on the device firmware and physical deployment. Created communication channels and workflow procedures to increase efficiency.
- **Illinois Institute of Technology** Chicago, IL
Help Desk Technician October 2014 – January 2016
 - **Device Configuration:** Installed, configured, and maintained new software and drivers on computers and peripherals such as printers.
 - **Ticket Management:** Using the FootPrints support ticket management service, handled existing support tickets and created new tickets based on phone and email inquiries.
 - **Data Integrity:** Ensured integrity and confidentiality of sensitive data.
- **The Hoof Beat** Chicago, IL
Web Developer / Reporter September 2013 – June 2014
 - **WordPress Management:** Managed the website of an online student publication using WordPress. Worked with IT Department to integrate features such as subscriptions into the school email system.
 - **Newsletter:** Set up and maintained a newsletter system which automatically sent weekly newsletters to students and faculty. Immediately increased readership of the publication.
 - **Data Analytics:** Implemented a data analysis system into the publication via Google Analytics, allowing the publication to track readership and better understand the target audience.
- **Northside College Prep** Chicago, IL
IT Support Technician September 2010 – June 2014
 - **Technology Deployment:** Set up computer systems in classrooms and laboratories, upgraded device hardware and software, maintained inventory of school devices.
 - **Data Recovery:** Recovered important user files from corrupted hard drives and damaged computers. Re-imaged new devices with recovered data.

PROJECTS

- **Automated Live Streaming Channel:** Automated playback system based on Python and FFmpeg for generating and playing videos seamlessly to a live streaming server.
- **Hybrid Real-time and Static Image Board:** Combination of both real-time and static image board software to create a hybrid forum for sharing posts and images.
- **Raspberry Pi Course:** Course handbook for teaching children aged 7-14 about using a Raspberry Pi, as well as basic Linux commands and programming in Scratch.
- **RescuePoint:** Offline mesh networking system based on portable wireless routers that would allow for emergency responders to communicate important information to all users connected to the network.

PROGRAMMING SKILLS

- **Languages:** Python, JavaScript, C, SQL, Java **Technologies:** AWS EC2, Bootstrap, Arduino, Git, Nginx