Markiyan Varhola

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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 – May 2018*

- **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 Management**: 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, Ruby, C, SQL, Java   **Technologies**: AWS, Ruby on Rails, Arduino, Git, Nginx