Simon Virag

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LinkedIn

Key Skills

Programming Languages: Java (Advanced), Python (Intermediate), C++ (Intermediate), MYSQL (Advanced), JavaScript (Intermediate), HTML (Intermediate), C (Intermediate)
Competencies: MATLAB, Arduino, Linux, Raspberry Pi, Git, OpenCV, R, Flutter, React,

Education and Qualifications

Bsc and MSci (combined degree) Computer Science
King's College London 2020-2024
International Baccalaureate Diploma
UWC Mahindra College 2018-2020
Subjects: Math HL, Physics HL, Computer Science HL, English B HL, Economics SL, Hungarian Literature SL
Societies: Robotics, High School Science, Stock Trading, MUWCI Merchandise
High School Diploma
II.Rákóczi Ferenc Secondary School 2014-2018
Hungarian National Curriculum: Natural Sciences Track
Subjects: Math HL, Computer Science HL, Physics HL, Chemistry HL, Biology HL
Societies: Robotics, Computer Science, Physics

Experience

Technical Associate, King's Business Club September 2020 - Present
- King's College Business Club website maintenance
- Worked on SEO
- Analysed website data (MATLAB, R)
- UX design
- Implemented security and data protection updates
- Developed and implementing marketing strategy

Volunteer, Baron Podmaniczky III. János Honvéd Association 2013 – Present
- Participated and planned firefighting and Search and Rescue operations
- Operated medium and high-performance technical rescue vehicles
- Participated in several qualifying disaster management exercises
- Promoted to subordinate of team sub-task management

Student Teacher, UWC Mahindra College 2018 – 2020
- Planned and lead educational activities for children from less-advantaged backgrounds
- Taught Natural Sciences, Mathematics and Computer Science
- Collaborated and communicated with a multicultural team of varying levels of English
- Languages used: Hindi, Marathi, English

Founder, II. Rákóczi Ferenc Secondary School Robotics Team 2015 – 2018
- Founder and Head of Society
- Participated in many FFL, Robotsumo, and WRO competitions
- Won National 2nd prize in the Hungarian FLL Championship 2016
- Planned and led robotics education seminars

Projects

Lab Apparatus Management System – UWC Mahindra College

- IB Diploma project
- Created system tracking chemicals and apparatuses for natural sciences for a client
- Frontend: Java/ NetBeans IDE
- Backend: MYSQL
- Achieved highest mark possible
- 100% client satisfaction

Robot Object Recognition Software – UWC Mahindra College

- 2020 FTC challenge problem solution
- 100% success rate
- Programming Language: Python/ PyCharm IDE
- Libraries used: OpenCV
- Technologies used: Git (GitHub), FTC Hex kit, Motorola Moto G6 camera

Automated House Circuit – UWC Mahindra College

- Smart house circuit and application for it
- Raspberry pi Core
- 13 Arduino modules for tasks
- Application frontend: Python
- Application backend: C/C++
- Communication: Bluetooth/ WIFI (ESP8266 Arduino module)

Certificates

Using Python to Interact with the Operating System – Google / June 2021
Getting Started on Python – University of Michigan / April 2021
Crash Course on Python – Google / March 2021
Machine Learning Onramp – MathWorks / October 2020
Matlab Onramp – MathWorks / September 2020
Network Security – StationX / October 2020
Anonymus Browsing– StationX / October 2020
End Point Protection – StationX / October 2020
Cyber Security Course – StationX / October 2020

Languages

English – Native Level
Hungarian – Native Level
Spanish – Intermediate level
Hindi – Elementary level

Honours and Awards

Google Europe Scholarship for Students with Disabilities 2021
FIRST Tech Challenge 2019 India – Winning Team Alliance Award
Robotsumo Competition of Esztár - National 2nd Place Prize
Robotsumo Competition of Kecskemét - 1st Prize Award
Infósok viadala - International 3rd place
Infósok viadala – International 4th place + Best Video Prize
FIRST Lego League 2016 Hungary – 2nd Prize award