Satyarth Arora

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PROFESSIONAL EXPERIENCE

KR MANGALAM WORLD SCHOOL GK II, NEW DELHI, INDIA
Software Developer, May 2020 –Sept 2020
- Responsible for the development and maintenance of software that automates certificate generation.
- Developed a .CSV parser and implemented the PyPDF2 and FPDF libraries to generate certificates in PDF's. **(Python)**
- Designed and Developed the Graphical User Interface. **(C++, JUCE)**

PRICORIS LLP, NOIDA, INDIA
Cyber Security Intern, May 2019 – Aug 2019
- Developed Auditing software for IEC61850 compliant substations.**(Java, XML, Batch)**
- Trained in administration, configuration and system management of OWL Data Diode.
- Developed an extension to OWL Data Diode's software to send notifications whenever a malicious packet is sent through the OWL Data Diode. **(C, Python, CentOS)**
- Developed training modules on Blockchain Development. **(Solidity)**

KPMG, GURGAON, INDIA
Cyber Security Intern, May 2018 – Aug 2018
- Worked on a project analyzing and comparing past cyber security threats with emerging ones.

FREELANCE
Music Producer and Mixing Engineer, May 2017 – Present
- Provided mixing and mastering services to recording artists, vocalists and music producers.
- Co-Developed tracks with other producers.

PROJECTS

- **Audio Effect Plugins**
  - Developed audio effect plugins such as Gain, Delay and Pan for VST compatible Digital Audio Workstations like FL Studio, Ableton. **(C++, JUCE)**
- **MewBot**
  - Software that allows users to search and download songs by song/artist name or by lyrics. **(Java, Python, Curl)**
- **SNAP-H | Automated Guided Vehicle**
  - 4-Wheel Mini-Vehicle made from acrylic sheets powered by Stepper Motors controlled by Arduino Microcontroller.
  - Developed the path finding algorithm and traversal algorithm using RFID's. **(C++)**
- **Mango | Audio Sample Pack**
  - Synthesized Drums, Leads, Plucks, and Basses for electronic music production using a 3 oscillator subtractive synthesizer and an audio sampler.**(3xOsc , FL Studio)**
  - Recorded beatbox sounds to create a high quality sample pack that can be used in digital music creation. **(Edison, Vocodex, FL Studio)**
- **EN1GMA**
  It is a device that projects 2D polygons onto a wall or screen via Laser Pointers. **(Arduino)**

EDUCATION

APEEJAY STYA UNIVERSITY, HARYANA, INDIA
Bachelor of Technology, Computer Science, 2017-2021   *GPA: 3.58/4.3*
- **Founder ,** Proxima (University's Technical Club)
- **Head Coordinator**, TechShield 2018 (University's Technical Fest).
- **EATS,** Sept 2020 – May 2021
  - Developing a tool to automate the university's examination department. **(JUCE, C++, Python)**

APEEJAY SCHOOL, Saket, India
High School, 2015-2017   *89.6%*
- Founder , Model United Nations Society
- Recipient of Dr Stya Paul Award for Human Values

SKILLS

Languages | Frameworks: C++, Python, Java, C#, HTML5, CSS, JavaScript | JUCE, p5.js, WPF
Technologies | Software: MS-SQL, Oracle SQL, OWL Data Diode, Git, Arduino | DAW (FL Studio), Wireshark