Satyarth Arora

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PROFESSIONAL EXPERIENCE

UNIVERSITY OF MIAMI
Teaching Assistant, August 2021 – Present
- Organizing and Facilitating Music Engineering Forum.

TPM WORLD SERVICES, GURUGRAM, INDIA
Software Developer Intern, Jan 2021 –June 2021
- Maintained, improved and maintained the backend of a product called Lucky Money.**(ASP.NET, MS-SQL, C#)**
- Integrated image scanning technologies and did user interface improvements to the Shred a Box web application. **(ASP.NET, JQuery, MS-SQL, C#)**

KR MANGALAM WORLD SCHOOL GK II, NEW DELHI, INDIA
Software Developer Intern, 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, GURUGRAM, INDIA
Cyber Security Intern, May 2018 – Aug 2018
- Worked on a project analyzing and comparing past cyber security threats with emerging ones.

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)**
- **AuxBot**
  - Software that allows users to search and download songs by song/artist name or by lyrics. **(C++, Python, JUCE)**
- **SNAP-H | Automated Guided Vehicle**
  - 4-Wheel Mini-Vehicle made from acrylic sheets powered by Stepper Motors controlled by Arduino Microcontroller.
- **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)**
- **EN1GMA**
  - It is a device that projects 2D polygons onto a wall or screen via Laser Pointers. **(Arduino)**

EDUCATION

UNIVERSITY OF MIAMI
Master of Science, Music Engineering Technology, 2021-Present

APEEJAY STYA UNIVERSITY, HARYANA, INDIA
Bachelor of Technology Computer Science, 2017-2021   ***GPA: 3.69/4.3***
- **Founder ,** Proxima (University's Technical Club)
- **Head Coordinator**, TechShield 2018 (University's Technical Fest).

SKILLS

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