

Satyarth Arora

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PROFESSIONAL EXPERIENCE

UNIVERSITY OF MIAMI

August 2021 – Present

Teaching Assistant

- Organizing and Facilitating Music Engineering Forum.

TPM WORLD SERVICES, GURUGRAM, INDIA

Jan 2021 – June 2021

Software Developer Intern

- 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

May 2020 – Sept 2020

Software Developer Intern

- 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

May 2019 – Aug 2019

Cyber Security Intern

- 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

May 2018 – Aug 2018

Cyber Security Intern

- Worked on a project analyzing and comparing past cyber security threats with emerging ones.

PROJECTS

- AuxPort [Jan 2021 – Present]**
 - AuxPort is an open source C++ library that provides utility functions for Audio Software Development in any OS Environment.
- 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 Bases 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

Aug 2021 - May 2023

Master of Science, Music Engineering Technology

APEEJAY STYA UNIVERSITY, HARYANA, INDIA

May 2017 - July 2021

Bachelor of Technology Computer Science, GPA: 3.73/4.3

- 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