

# Satyarth Arora

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## PROFESSIONAL EXPERIENCE

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### UNIVERSITY OF MIAMI, CORAL GABLES, FLORIDA

Aug 2021 - Present

Teaching Assistant

- Organizing and Facilitating Music Engineering Forum.

### TPM WORLD SERVICES, GURUGRAM, INDIA

Jan 2021 – July 2021

Software Developer Intern

- Maintained and improved the backend of a product called Lucky Money. (ASP.NET, MS-SQL, C#)
- Integrated image scanning technologies, user interface improvements and maintained documentation of the Shred a Box web application. (ASP.NET, JQuery, MS-SQL, C#)

### KR MANGALAM WORLD SCHOOL GK II, NEW DELHI, INDIA

May 2020 - Sep 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)
- 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

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### AuxPort

Jan 2021 - Present

- Developer and Maintainer of the open source library which aims to provide utility functions for Audio Software Development in any OS Environment. (C++, CMake)

### Audio Effect Plugins

Jun 2020 - Aug 2020

- Developed audio effect plugins such as Gain, Delay and Pan for VST compatible Digital Audio Workstations like FL Studio, Ableton. (C++, JUCE)

### AuxBot

Jan 2020 - Mar 2020

- Programmed a desktop application that allows users to search and download songs by song/artist name or by lyrics. (C++, Python, JUCE)

### Mango | Audio Sample Pack

Jan 2020 - Present

- Synthesized Drums, Leads, Plucks, and Bases for electronic music production using a 3 oscillator subtractive synthesizer and an audio sampler. (3xOsc, FL Studio)

### EN1GMA

Mar 2019 - Apr 2019

- Engineered a device that projects 2D polygons onto a wall or screen via Laser Pointers. (Arduino)

### SNAP-H | Automated Guided Vehicle

Mar 2018 - Jan 2019

- Assembled and programmed a 4-Wheel Mini-Vehicle made from acrylic sheets powered by Stepper Motors controlled by an Arduino Microcontroller.

## EDUCATION

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### UNIVERSITY OF MIAMI | GPA: 3.9/4

Aug 2021 - May 2023

Master of Science, Music Engineering Technology

### APEEJAY STYA UNIVERSITY, HARYANA, INDIA | GPA: 3.73/4.3

July 2017 - July 2021

Bachelor of Technology Computer Science,

- Founder, Proxima (University's Technical Club)
- Head Coordinator, TechShield 2018 (University's Technical Fest).

## SKILLS

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**Languages** | **Frameworks:** C++, C, Objective-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, Matlab, MS-Office**