

# Vivek Vijayan

## Audio Developer

I am a third year Computer Science Student who is interested in Sound and Music Computing

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## Contact

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Portfolio:

Github: [github.com/enter-opy](https://github.com/enter-opy)

LinkedIn: [linkedin.com/in/vivek-vijayan-062a18212](https://linkedin.com/in/vivek-vijayan-062a18212)

## Education

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12/2020 – now Bachelor of Technology in Computer Science

GPA: 7.82

Fee waiver

College of Engineering Chengannur

06/2018 – 03/2020 Higher Secondary Education in Computer Science

Percentage: 98%

St. Berchman's Higher Secondary School Changanacherry

## Volunteering Experience

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### Joint Convenor

IHRD Tharang 2023 (National Level Techno-Cultural-Entrepreneurial event organized by the Institute of Human Resources Development (IHRD))

- Lead the video team and created video contents for the promotion of IHRD Tharang 2023
- Created a promo song for IHRD Tharang 2023
- Created puzzles using HTML and CSS for Center-a-div event conducted by FOSSES CEC as part of IHRD Tharang

Convocation Ceremony Coordinator, CEC Talks Coordinator

Alumni Relation Cell CEC

- Volunteered in several activities for establishing strong relation with alumnus
- Edited podcasts for Cecify Radio (ARC CEC's Podcast series on Spotify)

Media Team Member

IEEE SB CEC

- Created video contents for Nirmana, Daksha and Emergence 2.0 conducted by IEEE SB CEC

Media Team Member

TinkerHub CE Chengannur

- Created video contents for Web Set Go, Hacktober fest Introduction and UI/UX Workshop conducted by TinkerHub CE Chengannur

## Skills

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### Top Skills

- Strong knowledge in digital signal processing
- Experience developing audio applications and plugins
- Professional music composer and producer
- Sound design and mixing
- Theoretical knowledge in Acoustics and Wave Physics
- Creative thinking for problem solving
- Strong grasp of machine learning algorithms

### Programming languages

C

C++

Python

MATLAB

Chuck

Faust

Cmajor

Verilog

Java  
HTML, CSS, JavaScript

## Tools

Visual Studio Community  
Visual Studio Code  
Android Studio  
Git  
CMake  
Jupyter notebook  
PureData  
GeoGebra Calculator Suite  
FL Studio  
Logic Pro X  
Cubase  
Ableton Live  
Izotope RX  
Adobe Photoshop, Premiere Pro, After Effects  
Figma

## Frameworks, Libraries and APIs

JUCE  
Maximilian  
Rubber Band  
Q  
Numpy  
Pandas  
Matplotlib  
Scikit-learn  
Essentia  
OpenGL  
OpenCV

## Projects

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### Sound of music

Sound of music is an audio effect plugin created using C++ JUCE framework. It lets you add digital artifacts such as bit crushing, down sampling, jitter and hard clipping to an audio signal. It features three adjustable bands and each band can be processed individually.

Project link - [github.com/enter-opy/sound-of-music](https://github.com/enter-opy/sound-of-music)

## Pulp fiction

Pulp fiction is an audio effect plugin created using C++ JUCE framework inspired by the works of 6091music. It lets you add water splash and stream samples to transients and sustains of an audio signal respectively.

Project link - [github.com/enter-opy/pulp-fiction](https://github.com/enter-opy/pulp-fiction)

## Present.io

Present.io is an android attendance taking app created using Kotlin and Firebase for FOSS Hack 3.0 conducted by FOSS United. It lets you take attendance by allowing users connect to a Wi-Fi and the admin can view the list of all users connected to the Wi-Fi.

Project link - [github.com/steveaugustine/In-Kyoobeh](https://github.com/steveaugustine/In-Kyoobeh)

## Numbur

Numbur is a number guessing game created using HTML, CSS and JavaScript inspired by Wordle. The player is given 8 chances to guess the number. Each time the player enters a wrong number it lets you know whether it is a factor of the target number.

Project link - [github.com/steveaugustine/numbur](https://github.com/steveaugustine/numbur)

## Achievements

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### SMIFA Shorts 2019

Best Music Director – Malayalam Category

## Courses and Certifications

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Accelerated Computer Science Fundamentals Specialization

University of Illinois at Urbana-Champaign

Digital Signal Processing Specialization

École Polytechnique Fédérale de Lausanne

Music as Biology: Why we like to hear and Why

Duke University

Intro to Acoustics

Korea Advanced Institute of Science and Technology (KAIST)

Introduction to Classical Music

Yale University

