

# DIVYAM AHUJA

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## EXPERIENCE

### Chromium

Remote

Google Summer of Code Intern

May 2022 - Present

- Currently I am working on AudioWorklet implementation for Emscripten
- Emscripten uses deprecated ScriptProcessorNode for Audio processing which is unsecure and provides bad UX
- Using AudioWorklet will provide more security and smoother User Experience as AudioWorklet runs in separate AudioWorkletScope which doesn't block main JavaScript thread

### NSS DCRUST

Sonipat, Haryana, India

Web Developer Intern

October 2020 – April 2021

- Designed and Developed responsive mobile-friendly User Interface of NSS DCRUST landing page
- Applied SEO, SSR and lazy-loading techniques using Next.js for a faster smoother UX

## EDUCATION

### Deenbandhu Chhotu Ram University of Science and Technology

Sonipat, Haryana, India

B.Tech. Computer Science & Engineering (CGPA: 7.73)

August 2018 – August 2022

## SKILLS

**Languages:** C, C++, Python, JavaScript, TypeScript, HTML5, CSS3, Java, Go, Bash

**Frameworks:** React, Redux, Node.js, Svelte, Express

**Tools/Platforms:** Linux, Shell, Git, Docker, Emscripten, WebAssembly

**Databases:** MySQL, MongoDB, Fauna

## PROJECTS

**fastbin: A code sharing web app** | *React.js, Next.js, Serverless functions (Vercel), Serverless Database (FaunaDB), TypeScript*

- A fullstack code sharing web application, deployed on vercel with 100% serverless backend.
- Frontend is implemented in Next.js and Backend using serverless functions (Vercel) and database (FaunaDB)
- Share code easily via links, and code gets deleted from database after 5 days
- [github.com/DivyamAhuja/fastbin](https://github.com/DivyamAhuja/fastbin), [fast-bin.vercel.app](https://fast-bin.vercel.app)

**3D Rendering Engine** | *C++, CMake, OpenGL, GLTF, GLFW*

- An OpenGL based 3D renderer written in C++
- Implements basic mesh loading from GLTF file
- Phong model for basic illumination implementation
- [github.com/DivyamAhuja/nyan-renderer](https://github.com/DivyamAhuja/nyan-renderer)

**YMeet** | *React.js, Socket.io, Node.js, WebRTC, Express*

- A full-stack video call app with node.js and express serving a REST API and reactjs used for frontend
- WebSockets and socket.io for P2P connection and WebRTC credentials sharing
- Implements peer to peer connection using WebRTC to transmit video for upto 4 connections
- [github.com/DivyamAhuja/YMeet](https://github.com/DivyamAhuja/YMeet), [whymeet.herokuapp.com](https://whymeet.herokuapp.com)

## OPEN SOURCE EXPERIENCE

### processing/p5.js

Remote

Open Source Contributor

Mar 2020 – Present

- Debugged issues and wrote fixes related to maths domain of library
- Updated documentation, examples and test cases for library functions

## COURSES AND CERTIFICATIONS

### Electronic Arts Software Engineering Experience Program

Virtual, Forge

Electronic Arts, Forge

October 2021

### CS50AI: CS50's Introduction to Artificial Intelligence with Python

Virtual, edX

Harvard, edX

July 2020