

# DIVYAM AHUJA

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## EXPERIENCE

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### AMD

#### Software System Designer

August 2022 - Present

- I am part of Java Performance Team, working on optimizing and tuning Java for AMD processors.

### Chromium

#### Google Summer of Code Contributor

May 2022 - September 2022

- I experimented with design patterns and worked on libraries for **AudioWorklet** and **WebAssembly interaction**.
- ScriptProcessorNode is widely being used for Audio Processing, but it runs on JavaScript main thread, which is unsecure and can have bad user experience as it runs on main thread.
- The design pattern I worked on use **Web Workers, Atomics, and SharedArrayBuffer**, to run WebAssembly and Audio Processing code on a separate Web Worker thread, which provides better isolation, security and overall better user experience
- [github.com/DivyamAhuja/gsoc-chromium-freequeue](https://github.com/DivyamAhuja/gsoc-chromium-freequeue)

## EDUCATION

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### Deenbandhu Chhotu Ram University of Science and Technology

Sonapat, Haryana, India

**B.Tech. Computer Science & Engineering (CGPA: 7.81)**

August 2018 – August 2022

## SKILLS

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**Languages:** C, C++, Python, JavaScript, TypeScript, Go (Golang)

**Frameworks:** React, Next.js, Node.js, Deno, Svelte

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

**Databases:** MySQL, MongoDB, Fauna

## PROJECTS

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### 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)

### 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)

### Zero: Social Media WebApp | *React.js, GraphQL, Apollo, MongoDB, Node.js*

- A full-stack social media application using reactjs for frontend, express apollo server for backend.
- Used MongoDB for database, semantic-ui for simple frontend and JWT based Authentication.
- [github.com/DivyamAhuja/Zero\\_Post](https://github.com/DivyamAhuja/Zero_Post), [zero-post.herokuapp.com/](https://zero-post.herokuapp.com/)

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

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

## COURSES AND CERTIFICATIONS

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### 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