

# DIVYAM AHUJA

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## EXPERIENCE

### Advanced Micro Devices (AMD)

Bangalore

#### Software System Designer (Software Engineer)

August 2022 - Present

- Applied precision java tuning techniques that resulted in a remarkable **2%** enhancement in performance.
- Spearheaded the development of automation scripts that streamlined the optimization process, resulting in quicker turnaround times and increased productivity.
- Developed innovative visualization dashboard, **RESTful API** and tools for monitoring OpenJDK performance periodically on different servers with different configurations using **React.js**, **JavaScript** and **Python**, providing real-time tracking of OpenJDK performance metrics, allowing for proactive identification of performance degradation points.

### Chromium

Remote

#### Google Summer of Code Contributor (Open-Source Contributor)

May 2022 - September 2022

- Explored different design patterns and contributed to the development of specialized libraries tailored for **AudioWorklet** and **WebAssembly** interaction.
- Engineered an innovative design pattern employing **Web Workers**, **Atomics**, and **SharedArrayBuffer** technologies to facilitate the execution of **WebAssembly** and Audio Processing code on a dedicated thread. This strategic approach significantly enhanced isolation, security, and overall user experience.
- [github.com/DivyamAhuja/gsoc-chromium-freequeue](https://github.com/DivyamAhuja/gsoc-chromium-freequeue)

## SKILLS

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

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

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

**Databases:** MySQL, MongoDB, Fauna, PostgreSQL

## PROJECTS

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

- A fullstack code sharing web application with **Next.js** frontend, a **100% serverless backend** using Vercel Serverless functions and **Fauna** for serverless database.
- [github.com/DivyamAhuja/fastbin](https://github.com/DivyamAhuja/fastbin), [fastbin.divyam.dev](https://fastbin.divyam.dev)

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

- A full-stack video call application made using **React.js** and **Express.js**, using **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), [ymeeet.divyam.dev](https://ymeeet.divyam.dev)

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

- An OpenGL based 3D renderer written in **C++**, supporting GLTF file loading and Phong model of illumination.
- [github.com/DivyamAhuja/nyan-renderer](https://github.com/DivyamAhuja/nyan-renderer)

### Snake in WebAssembly | *C++, CMake, WebAssembly*

- A prototype implementation of Snake game written in **C++** with olcPixelGameEngine.
- Ported to web using **WebAssembly**.
- [github.com/DivyamAhuja/snake\\_wasm](https://github.com/DivyamAhuja/snake_wasm), [divyam.dev/snake\\_wasm](https://divyam.dev/snake_wasm)

## EDUCATION

### Deenbandhu Chhotu Ram University of Science and Technology

Sonipat, Haryana, India

*Bachelor of Technology (B.Tech.) Computer Science & Engineering*

August 2018 – August 2022

## COURSES AND CERTIFICATIONS

### MITx 6.86x: Machine Learning with Python-From Linear Models to Deep Learning

Virtual, edX

*MITx, edX*

December 2020

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

Virtual, edX

*Harvard, edX*

July 2020