DIVYAM AHUJA

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EXPERIENCE

AMD Bangalore

Software System Designer

August 2022 - Present

- I am part of Java Performance Team, working on optimizing and tuning Java for AMD processors.
- I have wrote scripts for optimizing java performance by as much as 2% for AMD processors.
- I have worked on building tools for automation and visualization of openidk performance.

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

EDUCATION

Deenbandhu Chhotu Ram University of Science and Technology B.Tech. Computer Science & Engineering (CGPA: 7.79)

Sonipat, Haryana, India August 2018 - August 2022

SKILLS

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

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

Tools/Platforms: UNIX/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. is 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, fastbin.divyam.dev

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

- A full-stack video call app with node is and express serving a REST API and reactis 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, ymeet.divyam.dev

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

COURSES AND CERTIFICATIONS

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

MITx, edX

CS50AI: CS50's Introduction to Artificial Intelligence with Python

Harvard, edX

December 2020 Virtual, edX July 2020

Virtual, edX