

# Divyam Ahuja

Software Engineer

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## Experience

**Advanced Micro Devices (AMD)**

Bangalore

**Software Engineer**

Aug 2022 - Present

Tech Stack: C, C++, Java, Python, React.js, JavaScript

- Engineered an OpenJDK performance monitoring system, resulting in early identification of performance degradation points.
- Spearheaded development of a visualization dashboard and RESTful API to monitor OpenJDK performance, increasing data accessibility by 40%.
- Automated systems to benchmark and tune Java nightly using machine learning techniques, resulting in a 30% reduction in manual effort and improved accuracy.
- Applied Java tuning techniques that resulted in 2% increase in the High Performance Computing (HPC) server performance.
- Refactored and Containerized projects to work on different machines and workloads, resulting in a 90% reduction in errors.
- Developed and deployed a front-end for utilization of Large Language Model APIs for task-specific purposes.
- Awarded Spotlight Award for development of automation and visualization of nightly benchmark runs.

**Chromium**

Remote

**Google Summer of Code Contributor (Open Source Developer)**

May 2022 - Aug 2022

Tech Stack: JavaScript, TypeScript, C, C++, WebAudio, WebAssembly, WebWorkers

- Explored and engineered different design patterns for using WebAudio API with WebAssembly and WebWorkers.
- Designed and developed a lock-free ring buffer library for high performance audio processing.
- [github.com/DivyamAhuja/gsoc-chromium-freequeue](https://github.com/DivyamAhuja/gsoc-chromium-freequeue)

## Skills

**Programming Languages:** C/C++, Python, JavaScript/TypeScript, Java, Go (Golang), Bash

**Frameworks:** React.js, Next.js, Express.js, Django, Flask, Node.js

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

**Databases:** MySQL, MongoDB, PostgreSQL, Redis

## Projects

**fastbin: a code sharing webapp** | React.js, Next.js, Vercel, FaunaDB, TypeScript

- A full-stack code sharing web application with Next.js front-end, a 100% serverless back-end 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, Node.js, Express.js, Socket.io, WebRTC

- 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)

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

- A simple Snake game written in C++ and 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**

Haryana, India

**Bachelor of Technoloy (B.Tech.) Computer Science**

Aug 2018 - Aug 2022

## Courses & Certifications

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

CS50AI: CS50's Introduction to Artificial Intelligence with Python