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, JavaSript
- 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 performance.
- Refactored a project codebase to work on different machines and workloads, resulting in a 50% reduction in deployment errors.
- Developed and deployed a frontend for utilisation of Large Language Model APIs for task-specific purposes.

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

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 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, 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, ymeet.divyam.dev

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, 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