

Divyam Ahuja

Systems & Software Engineer

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Experience

Microsoft

Software Engineer

Noida

Mar 2025 - Present

Tech Stack: Python, TypeScript, React, Azure OpenAI, Claude Code, Copilot, Playwright

- Owned the end-to-end Responsible AI (RAI) evaluation pipeline, executing critical harms assessments to gate model releases. Engineered custom retry mechanisms and architectural optimizations, reducing average pipeline execution time by **50%**.
- Engineered an automated synthetic data generation framework using LLMs, generating **70,000+** diverse queries and multi-step interaction trajectories across **20,000+** real-world Excel workbooks to power large-scale model evaluation pipelines.
- Served as on-call Shield Engineer, driving infrastructure reliability across evaluation pipelines—resolving session instabilities, engineering deterministic failure classification, and automating bug workflows to maintain **>95%** uptime.
- Architected KQL-driven telemetry dashboards to monitor pipeline clean run rates and infrastructure failures, establishing single-pane-of-glass observability across the evaluation platform.
- Shipped deterministic handling for RAI policy refusals in UI-less agent evaluations, ensuring robust diagnostic propagation and achieving 100% execution parity with UI-based paths.
- Implemented full-stack performance optimizations and WCAG-compliant accessibility features to the core Microsoft Excel web client (React/TypeScript), eliminating UI rendering bottlenecks for millions of enterprise users.

Advanced Micro Devices (AMD)

System Software Designer

Bangalore

Aug 2022 - Feb 2025

Tech Stack: C/C++, Java (OpenJDK), Python, Django, React, SQLite

- Engineered a visualization dashboard and RESTful API for OpenJDK telemetry, increasing internal data accessibility by **40%**.
- Automated nightly Java benchmarking and tuning pipelines using machine learning models, achieving a **30%** reduction in manual effort and earning the **Spotlight Award**.
- Optimized JVM flags, GC policies, and runtime parameters for OpenJDK on High Performance Computing (HPC) servers, achieving a **2%** throughput improvement on SPECjbb benchmarks.

Chromium

Google Summer of Code Contributor (Open Source Developer)

Remote

May 2022 - Aug 2022

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

- Engineered a lock-free C++ ring buffer as a reference library for real-time audio streaming between WebAudio, WebAssembly, and WebWorkers, benchmarking multiple concurrency strategies.

Skills

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

Frameworks & Tools: PyTorch, Azure OpenAI, React/Next.js, Django/Flask, Node.js, gRPC, Playwright

Infrastructure: Kubernetes, Docker, Linux/POSIX, WebAssembly, WireGuard, PostgreSQL, Redis

Projects

fastbin: a code sharing webapp | HTMX, Go (Golang), gRPC, PostgreSQL, Docker, Kubernetes

- Code sharing service with a gRPC microservices architecture, containerized and live-deployed on a self-hosted Kubernetes cluster.
- git.divyam.dev/divyam/fastbin, fastbin.lab.divyam.dev

Homelab | Raspberry Pi 5, WireGuard, Kubernetes, Rancher, MetalLB

- Personal infrastructure hosting containerized services, with WireGuard VPN tunneling to a public VPS for secure external access.

Education

Deenbandhu Chhotu Ram University of Science and Technology

Bachelor of Technology (B.Tech.) Computer Science

Haryana, India

Aug 2018 - Aug 2022