

# Divyam Ahuja

## Software Engineer

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## Experience

### Microsoft

#### Software Engineer

Noida  
Mar 2025 - Present

Tech Stack: Python, JavaScript, TypeScript, Playwright, Telemetry

- Build, evaluate, and enhance AI-powered user experiences for the Excel Copilot team.
- Architected a parallelized automation framework for synthetic data generation and evaluation, boosting pipeline throughput by **5x**.
- Orchestrated the Responsible AI (RAI) pipeline, executing evaluation runs on new models to guarantee safe and deterministic AI outputs.
- Acted as on-call Shield Engineer, monitoring pipeline health, triaging partner issues, and driving incident response for critical bugs.
- Integrated comprehensive telemetry, structured logging, and observability dashboards into pipelines to maintain **>95%** reliability.
- Engineered autonomous AI agents to automate repetitive tasks and optimize workflow efficiency.

### Advanced Micro Devices (AMD)

#### System Software Designer

Bangalore  
Aug 2022 - Feb 2025

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

- Engineered an OpenJDK performance monitoring system, enabling early detection and mitigation of performance degradation.
- Spearheaded the development of a visualization dashboard and RESTful API for OpenJDK telemetry, increasing data accessibility by **40%**.
- Automated nightly Java benchmarking and tuning using machine learning models, achieving a **30%** reduction in manual effort.
- Executed advanced Java tuning techniques, yielding a **2%** performance increase across High Performance Computing (HPC) servers.
- Refactored and containerized legacy projects for cross-platform compatibility, driving a **90%** reduction in deployment errors.
- Received the **Spotlight Award** for exceptional contributions to automation and nightly benchmark visualization.

### Chromium

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

Remote  
May 2022 - Aug 2022

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

- Researched and implemented optimal design patterns integrating the WebAudio API with WebAssembly and WebWorkers.
- Designed and authored a high-performance, lock-free ring buffer library for real-time audio processing.
- [github.com/ahujadivyam/gsoc-chromium-freequeue](https://github.com/ahujadivyam/gsoc-chromium-freequeue)

## Skills

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

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

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

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

## Projects

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

- [git.divyam.dev/divyam/fastbin](https://git.divyam.dev/divyam/fastbin), [fastbin.lab.divyam.dev](https://fastbin.lab.divyam.dev)

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

## Education

Deenbandhu Chhotu Ram University of Science and Technology  
Bachelor of Technology (B.Tech.) Computer Science

Haryana, India  
Aug 2018 - Aug 2022