

YASH JAISWAL

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EXPERIENCE

MIRA 3D Innovations

Pune

SDE-1 (Backend Engineer)

Apr 2026 - Present

- Scaling the **sign-language interpreter** used live during **PM Modi's speech** at **AI Impact Summit 2026**
- Building an **event-driven microservices backend** using TypeScript, Python, Redis Streams, and Docker
- Designing backend pipelines for a real-time **QR-to-Sign language conversion** feature

Global Kartel

Pune

Associate Backend Developer

Jul 2025 - Mar 2026

- Built core **text-to-viseme mapping** pipelines and **interpreter REST APIs** in Node.js
- Developed the initial backend infrastructure that powered **early live sign-language interpreter** demos
- Built and maintain **backend systems serving 4k+ users**, including **fitness and merch platforms**

Backend Developer Intern

Dec 2024 - Apr 2025

- Built **data dashboards** and **automated PDF workflows** in Node.js
- Integrated **AWS S3**, **Gemini API**, and **webhook-based payments**
- Contributed to **Go (Fiber + GORM) migration** and **auth improvements**

PearlThoughts

Remote

DevOps Engineer Intern

Oct 2023 - Nov 2023

- Provisioned AWS and Azure VMs in **sandbox environments** to test infrastructure setup and configuration
- Automated repeatable infrastructure deployment using **Terraform** across cloud environments
- Set up **CI/CD pipelines** using Jenkins in a sandbox environment

PROJECTS

Async Bulk Export Service | Go, PostgreSQL, Docker

Aug 2026

- Built a **bounded worker pool** with **backpressure** and **graceful shutdown** via context cancellation
- Found a **data race** using Go's race detector and fixed it with **atomic operations**
- Optimized** a multi-table query with a **covering index**, cutting execution time from **160ms to 108ms**

Distributed Product Sorting with MPI | C++, MPI, Node.js, React.js, TypeScript

Apr 2025

- Built full-stack app using MPI in C++ to **parallelize sorting across multiple processes** via Node.js
- Distributed records via **message passing**, sorted chunks in parallel, **merged results on coordinator process**
- Built Node.js layer to **spawn MPI binary**, handle file I/O, and **serve paginated results**

Slack Bot with Streaming AI & Observability | Go, Google Gemini, OpenTelemetry, Docker

Jun 2025

- Built Slack bot streaming AI responses via **SSE**, handling **DMs and @mentions**
- Implemented **end-to-end tracing** using OpenTelemetry
- Containerized** with Docker for scalable deployment

EDUCATION

BE (Bachelor of Engineering) - Computer Engineering

2022 - 2025

Progressive Education Society's Modern College of Engineering

Pune

Diploma in Computer Engineering

2020 - 2022

MIT Polytechnic

Pune

SKILLS

Languages & Frameworks: TypeScript / JavaScript (Node.js), Go (Fiber), Python (FastAPI)

Databases: MongoDB, PostgreSQL

Caching & Messaging: Redis, Redis Streams

Cloud & DevOps: AWS, Docker, Linux

CERTIFICATES

Backend Engineering Launchpad - Airtribe | AZ-900: Microsoft Azure Fundamentals - Microsoft