

Shivansh Goyal

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EXPERIENCE

Software Incubator

July 2025 – August 2026

Backend Intern | *TypeScript, Node.js, Django, PostgreSQL, Redis, AWS, Vertex AI*

Remote

- Engineered a distributed **AI video processing pipeline** handling over **30,000 videos/day at peak** using parallel **Gemini** analysis, **BullMQ**, and **Langfuse** tracing
- Architected a **personalized feed microservice** using **Vertex AI** embeddings, **pgvector HNSW**, and behavioral ranking, reducing p95 retrieval latency by **22%**
- Built a **ClickHouse analytics platform** processing over **14M ranking decisions** and **300K recommendation traces/day** through Redis-backed **BullMQ** ingestion
- Implemented a **global payouts platform** processing over **84K Tremendous orders** across **50 countries**, with secure webhooks, reconciliation, and tax-compliance controls
- Designed an **AI fraud and identity platform** using **Gemini** and **Verisoul** for risk scoring, face matching, and ID verification across **8.9M account assessments**

Ukudala

Dec 2024 – June 2025

Backend Developer | *Node.js, AWS Lambda, API Gateway, DynamoDB, Step Functions*

Remote

- Architected **45+ AWS Lambda functions** with **Node.js 22.x**, implementing microservices architecture using **API Gateway** REST/WebSocket APIs for publishing platform
- Engineered **real-time messaging system** using **WebSocket APIs** and **DynamoDB Streams**, handling **10,000+ concurrent connections** with sub-100ms latency
- Designed **document processing pipeline** using **Step Functions**, integrating **Rekognition**, **Textract**, and containerized **ClamAV on EFS** for content moderation and virus scanning

PROJECTS

CodeClash | *Node.js, PostgreSQL, Redis, Docker, AWS* 🐙 **GitHub Repo**

Dec. 2024 – Feb. 2025

- Built and scaled the backend system** of a competitive programming platform enabling real-time **1v1 coding battles** and **contest management**.
- Implemented **BullMQ with Redis** to manage concurrent job queues for handling code execution requests at scale, and integrated **WebSockets with Redis Pub/Sub** to support real-time matchmaking, battle synchronization, and live status updates.
- Leveraged **AWS Lambda** for secure, isolated, and cost-effective code execution across multiple languages.
- Containerized services with **Docker** and deployed on **AWS Kubernetes**, ensuring scalability.

Classence | *Node.js, TypeScript, React, MongoDB, Socket.IO, WebRTC* 🐙 **GitHub Repo**

Nov. 2024

- Developed and maintained a scalable **Node.js backend** with **RESTful APIs** and **WebSocket services** to support real-time features like chat, live lectures, and assignments.
- Devised efficient **MongoDB data models** and integrated **AWS S3** for secure media handling, ensuring strong data consistency and performance.

SKILLS

Languages: TypeScript, JavaScript, Python, Go, C/C++, SQL, HTML/CSS

Frameworks & Backend: Node.js, Express.js, Hono, Strapi, NestJS, Django, React, Next.js, Socket.IO, WebRTC

Databases & Messaging: PostgreSQL, ClickHouse, MongoDB, Redis, DynamoDB, pgvector, BullMQ, Redis Pub/Sub, Drizzle ORM

AI & Search: Vertex AI, Gemini, OpenAI API, LangChain, LangGraph, Vector Embeddings, HNSW Search

Cloud & Infrastructure: AWS (Lambda, API Gateway, S3, EFS, Step Functions, Cognito), GCP (Cloud Run, Cloud Storage, Cloud SQL, BigQuery), Docker, Kubernetes, Vercel, Supabase

Observability & Tools: OpenTelemetry, Langfuse, Datadog, Sentry, Grafana, Loki, Tempo, Mimir, PostHog, Git, GitHub, CI/CD

EDUCATION

Dr. A.P.J. Abdul Kalam University

Ghaziabad, Uttar Pradesh

B.Tech. in Computer Science and Engineering — GPA: 9.73

2023