

# PRIYANSHU KUMAR

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## Experience

### Gamezop

Software Engineer – Backend

Oct 2023 – Present

Hyderabad, Telangana

- Engineered scalable and fault-tolerant **rewards service** with **order book**, **user wallet system**, and **payment gateway integration**, powering incentives and gamification across an **enterprise platform**.
- Architected** and **scaled** the Criczop from the ground up to **4M+** monthly users, achieving **25ms P99 latency** via high-performance API design and **database query optimization**.
- Implemented real-time data streaming through **SSE** (Server Sent Events) using **Phoenix framework** and **pub/sub architecture**, enabling **low-latency broadcast** (~10ms) of live cricket match updates.
- Architected and developed an **embeddable widget**, a plug-and-play solution serving **real-time, low-latency cricket updates** to a distributed network of publisher websites.
- Engineered a **real-time, LLM-powered** commentary engine to **dynamically rephrase** live cricket updates into multiple tones and styles, delivering a **personalized** user experience.
- Augmented observability stack by integrating **OpenTelemetry** and **SigNoz** for distributed tracing and metrics, reducing reliance on **Datadog** and lowering monitoring costs.
- Engineered a headless **Payload CMS** with **MongoDB** to decouple content from code, enabling non-technical teams to **autonomously manage and deploy** site-wide content.

### HashedIn

March 2023 – June 2023

Software Engineer Intern

Bengaluru, Karnataka

- Developed a proctoring tool using **Next.js**, **Node.js**, and **Express** to monitor candidates during hiring tests, and integrated it into the company's internal toolchain.
- Implemented** on-device, **AI-driven** proctoring (object detection, eye-tracking) using **Tensorflow.js** and browser lockdown to ensure test integrity.
- Implemented** **WebRTC** and **Socket.io** for real-time video streaming, and **optimized** it by **34%** by adding **dynamic bitrate adaptation** and **congestion control**.
- Built robust backend APIs utilizing **Node.js** and **Express**. Enhanced backend reliability by writing comprehensive integration and unit tests using **Jest** and **Cypress**, achieving an impressive **85% test coverage**.

## Technical Skills

### Languages

: Go, Elixir

### DevOps

: Git, Docker, Nix, Github Actions

### Monitoring

: Datadog, Grafana, SigNoz, Prometheus

### Database/Queues

: PostgreSQL, Redis, ElasticSearch, RabbitMQ

## Projects

### WebSocket Service

- Built **WebSocket** service with **Python**, **Django Channels** and **Uvicorn** to support real-time messaging and persistent sessions across distributed workers.
- Deployed containerized services via **Docker Compose** and **Nginx**, enabling **blue/green deployment** ensuring seamless zero-downtime upgrades.
- Instrumented **Prometheus** metrics, developed **Grafana** dashboards, and defined alert rules to monitor connection drops and latency spikes for proactive observability.
- Conducted load testing using **k6**, validating **7000+** concurrent **WebSocket connections** on a **4-core system** and applied targeted optimizations to enhance throughput and stability.
- Implemented CI pipeline using **GitHub Actions** to run tests using **pytest**, execute monitoring scripts, run smoke tests, and archive artifacts.

## Achievements

- Ranked **614<sup>th</sup>** among 8,100 participants in **Google Kickstart 2022 Round H**.
- Ranked **2242<sup>nd</sup>** among 12,300 participants in **Meta Hackercup Round 1**.
- Maximum Rating **2020 (5\*)** on **Codechef**.
- Maximum Rating **1505 (Specialist)** on **Codeforces**.

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## Education

Dr. Ambedkar Institute Of Technology, Bengaluru, Karnataka

Bachelor of Engineering in Information Science and Engineering

Aug. 2019 – Jul. 2023

CGPA : **9.11/10**