

# Pranjal Tale

Bangalore, India

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## Skills

<b>Languages/Frameworks</b>	Go, Python, Typescript, Django, Express, LangGraph, Google Agent Kit, MCP
<b>Tools/Technologies</b>	LLMs, Docker, Kubernetes, Spark, PostgreSQL, Mongo
<b>Interests</b>	Applied AI, Containers, Developer Platforms, Data Engineering

## Experience

### Medable SR. DEVELOPER BACKEND

Bangalore, India June 2023 - Present

#### AI Platform

- Built an **AI Agent Runner** platform, enabling teams to easily define complex workflows in a clear declarative format.
- Created a JSON-based agent runner that manages tool execution, supports real-time streaming, and handles state management smoothly.
- Migrated from a custom agent engine to **Google's ADK**, significantly boosting system reliability and reducing maintenance effort.
- Developed healthcare-specific tools using **MCP** to help agents quickly access both structured and unstructured data sources.
- Implemented retries, timeouts, and state recovery mechanisms to ensure reliable and smooth multi-step agent execution.
- Integrated **RAG capabilities** into the framework, supporting ingestion from PDFs, databases, and Google Docs for grounding agent responses.

#### Core Platform

- Built a centralized **assets management** service used across teams providing functionalities like versioning, state management.
- The service provide fine-grained permission controls, along with custom data-validator.
- Designed and developed a rule-based evaluation engine for sending context-aware notifications.
- Built a multi-service, Docker-based setup to streamline provisioning of development environments both locally and on the cloud.

### Hackerrank SDE1 -> SDE2 -> SENIOR ENGINEER

Bangalore, India April 2020 - June 2023

#### IDE Infrastructure and Tooling

- Built and scaled a new native **IDE orchestration engine** using VMs, improving scalability by 5x.
- Designed a custom routing system and workspace architecture using Docker Compose.
- Developed a new frontend-based IDE achieving sub-second load times with full functionality.
- Improved IDE launch-time SLA from 80% to 95% using an intelligent provisioning layer with warm-up strategies.
- Improved IDE-Editor launch SLA from 93% to 99% by building a new IDE-Management-Service in **Golang**.
- Cut infra costs by 50% and doubled system scale by migrating to a VM-based IDE infrastructure.

#### Platform Services and Data Systems

- Led the development of a **Centralized Authorization Service**—from initial design to production rollout—on the platform team.
- Migrated the core auth logic from a monolith to a dedicated microservice, improving flexibility and maintainability.
- Built a product-friendly abstraction layer over **SpiceDB** (Zanzibar-based) to simplify integration across teams.
- Reduced the **data-pipelines** latency from 1 hour to 5 minutes by designing new infra using PySpark, Hudi and Airflow.

### GfK U.K. Ltd SOFTWARE DEVELOPMENT INTERNSHIP

London, UK May 2019 - June 2019

- Worked along with the SRE team on the setup of Gitlab using helm in GKE. Developed CI templates using Gitlab-CI
- Developed GitOps flow and integrated the same with Gitlab-CI and GCR.

### Information Management Group CHIEF COORDINATOR

Roorkee, India May 2018 - April 2019

- Led a 50+ member student team responsible for developing IIT Roorkee's internal applications, including the official website.
- Mentored 20 developers and managed the CMS platform, maintaining 99.9% uptime across all apps.
- Regularly coordinated with IITR administration to align goals, share progress, and plan feature rollouts.

### Hackerrank SOFTWARE DEVELOPMENT INTERNSHIP

Bangalore, India May 2018 - July 2018

- Built a secure code evaluator in Golang that runs each submission in an isolated container using runc.
- Deployed the system on Kubernetes with horizontal scaling support.

### Vernacular.ai SOFTWARE DEVELOPMENT INTERNSHIP

Bangalore, India Nov. 2017 - Dec. 2017

- Developed Python module to parse random text strings into structured key-value tagged data.

### CodeWorld SUMMER OF HASKELL

Remote May 2017 - July 2017

- Built a Haskell-to-JS compiler package using GHCJS with an integrated syntax parser to catch common errors before compilation

## Education

### Indian Institue of Technology Roorkee

Roorkee, India

INTEGRATED M.SC IN APPLIED MATHEMATICS

June. 2015 - June. 2020

## Projects

2018	<b>CMS, IIT Roorkee</b> , Custom CMS for the website of IIT Roorkee (Yii, PHP)	IMG, IITR
2018	<b>Docker-Yii2</b> , Dockerised version of yii2 advance template (Docker, Yii)	Open Source
2017	<b>Student Mentorship Portal</b> , Mentor-Mentee communication platform for IITR (Django, Python)	IMG, IITR