

Aditya DS

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EDUCATION

Indian Institute of Information Technology, Kancheepuram

B.Tech + M.Tech in Electronics & Communication Engineering, CGPA - 8.69

Sri Kumaran Children's Home Composite Junior College

12th, 90.16%

Mirambika School For New Age

10th, CGPA - 10.0

Chennai, Tamil Nadu

Aug 2018 – May 2023

Bengaluru, Karnataka

June 2016 – March 2018

Bengaluru, Karnataka

April 2016

EXPERIENCE

Software Development Engineer

Powerplay

May 2022 – Present

Bengaluru, Karnataka

- Promoted from intern to full-time after successful completion of a 6-month internship.
- Started out as the **PoC for Mid-Market requirements**, an experiment to try and sell the software to mid-market customers. Managed everything from requirement gathering to ensuring a smooth release, and we were successful in achieving a **5x increase in ticket size**.
- Designed and built our core product's **onboarding flow**, which personalizes the experience based on the user's primary value. This **reduced onboarding time from 10 days to 30 minutes**, significantly improving operational efficiency. Customer **time-to-value (TTV)** also dropped from **1 month to under a week**.
- Designed and developed **custom fields** – including plain text, additive and non-additive numbers, single & multi select and computed fields – for use across different modules in our product and also integrated it into the **Task module**. This enabled users to track and manage additional data specific to their needs.
- Designed and developed an organisation-wide **analytics dashboard** powered by **ClickHouse**, with real-time data ingestion using **MongoDB change streams** and **Kafka**. Built an internal **ClickHouse query builder** in **JavaScript** to support complex dynamic queries due to lack of existing solutions. This **significantly reduced our dependence on Zoho Analytics**.
- Led multiple **Elasticsearch** enhancements including **improved search relevance** using **ngram and standard analyzers**, **improved ingestion rates from MongoDB by 40–50x**, cleaned up index mappings to save disk space by disabling dynamic mappings, and introduced a **re-indexing process** leveraging Elasticsearch data itself to reduce dependency on MongoDB.
- **Improved job server reliability** by identifying and resolving multiple performance bottlenecks. Developed a centralized monitoring dashboard to track the status and health of various jobs in real-time, enhancing operational visibility and issue response times.
- Built an **internal tool to debug WebViews**, streamlining issue reproduction and cutting down debugging time for QA and engineering teams.

TECHNICAL SKILLS

- **Languages** – JavaScript/TypeScript, Go, C++, Python
- **Technologies** – Node.js, Express, MongoDB, ClickHouse, Elasticsearch, Kafka, Nginx, Docker, React.js, Next.js
- **Cloud & DevOps** – AWS (EC2, S3, Lambda, SQS, API Gateway, DynamoDB), CI/CD pipelines with GitHub Actions

PROJECTS

DiceDB Driver — Node.js, TypeScript

<https://github.com/Aditya-ds-1806/dicedb-driver>

Designed and built a fast, promise-based database driver for DiceDB(a fast key-value store), with full support for typed commands and subscriptions.

Dictpress-tts — Go, GCP

<https://github.com/Aditya-ds-1806/dictpress-tts>

Built a text-to-speech plugin for Dictpress, enabling audio pronunciations in online dictionaries. Used in production by the Alar Kannada-English dictionary to serve over 150,000 voice entries.

Skribbls.io — Node.js, Express, Socket.io

<https://github.com/Aditya-ds-1806/Skribbls.io>

A multiplayer, turn-based drawing and guessing game inspired by Skribbl.io, tailored for Indian languages.