

Shashank Daima

Delhi-IN | daimashashank10@gmail.com | [8295380791](tel:8295380791) | bento.me/shashankdaima
linkedin.com/in/shashankdaima | github.com/shashankdaima

Experience

Software Engineer, Redacto.ai – Bangalore, IN Sept 2025 - Present

- Built a **notification policy** engine from scratch, including a **custom rule engine**, using Python with PostgreSQL and MongoDB for change-driven notifications across the system, with inter-service communication handled via RabbitMQ.
- Designed and implemented an end-to-end **Action Center** feature that provides a centralized interface for notification management, enabling users to assign items and perform follow-up actions. I independently architected and developed the complete technology stack, including a Next.js-based frontend and a Django Ninja-based backend.

Software Engineer, LeanMVP – Bangalore, IN May 2024 – Aug 2025

- Engineered a dramatic **90–95% reduction in query latency** for Tableau-style analytics in the QCD Data Platform—cutting average response times from **1.5 seconds** (via REST API) down to just **75 milliseconds**—by designing and integrating a high-performance, in-memory **DuckDB-Wasm** layer. This innovation seamlessly shifted heavy data processing from the cloud to the client, delivering near-instant results and a much smoother user experience.
- Designed and implemented a custom **Domain-Specific Language (DSL)** for the QCD Data Platform, empowering users to define their own calculated fields with ease. Built a robust **parser** that translates these user-friendly expressions into **optimized SQL queries** using an **Abstract Syntax Tree (AST)**, unlocking powerful, flexible analytics for everyone—no SQL expertise required.
- Engineered a highly responsive, data-driven website builder by refactoring from a **two-iframe synchronous page refresh model** to an **asynchronous postMessage-based system** for real-time Redux state synchronization, reducing configuration propagation latency to sub-second. Further **optimized live website load times by 70%+** via a **multi-size image processing pipeline** and **CDN integration**.

Software Engineer, Chartr (CSM Lab, IIT-Delhi) – Delhi, IN Feb 2023 – Jan 2024

- Owned and managed the complete software development lifecycle of the **Ads Platform (formerly Chartr Reach)**, delivering **ads-as-a-service solutions** to prominent corporate clients. **Featured in media** and achieved **164 orders within 12 hours of launch**.
- Developed **multi-city support** for Chartr, expanding service to **Bangalore and Hyderabad** and acquiring **10K new DAUs**, contributing to a total of **125,000 DAUs** and **1.5M+ installs** for the Chartr Android App only.

Technologies

Languages & Core Development: Python, Java, JavaScript, TypeScript, C, Dart, Kotlin

Frameworks & Platforms: Next.js, React.js, Django(Ninja API), Flask, Express.js, Android, Flutter, AWS, Azure, Docker

Databases & Tools: Redis, Postgres, MongoDB, DuckDB-wasm, Android Studio, Hashing Techniques (PDQ, MD5)

Projects

[WhatsViral \(Under Prof. Kiran Garimella, Rutgers University, USA\)](#) [Playstore Link](#)

- Developed Whatsviral (1K+ Downloads, 300+ DAUs): A privacy-centric platform designed to combat spam and viral content by rewarding users for exporting one-way encrypted WhatsApp chat data.
- Engineered robust encryption mechanisms: Implemented PGP for text, PDQ hashing for images, and MD5 for videos, enabling secure, shallow copies of user data without storing actual files on cloud storage, leading to the detection of 12 potentially harmful messages and an Al-Qaeda image in the last month.

[PlayLiveChess](#) [Github Link](#)

- Built a scalable online chess platform using Django (with Channels for WebSocket-based real-time gameplay), Dockerized the backend, deployed on AWS EC2, and developed a manager microservice to auto-scale game servers based on system load and user demand; used AWS RDS, React, Redux, and ECS (EC2-T2 micro)

Multi-Channel Notification System

[*Github Link*](#)

- Engineered a Multi-Channel Notification System: Developed a robust Express.js (TypeScript) backend and integrated diverse APIs (FCM, Google OAuth, Slack) to dispatch real-time notifications across SMS, Email, Push, and Slack channels.

Education

Indraprastha Institute of Information Technology, Delhi, Bachelors in CSE

Sept 2019 – Jan 2024