

Rahul Gupta

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Experience

SDE-1 - Surepass Technologies

October 2024 – Present

- ❖ **Built from scratch & deployed end-to-end:** Architected **SureParser**, an **AI-powered PDF parsing platform** with intelligent **schema generation**, **multi-class document classification**, and **automated data extraction**, owned complete **CI/CD pipeline**, configured auto-scaling infrastructure, and established monitoring for production stability
- ❖ **eSign platform expansion:** Extended digital **signature capabilities** with **PKI certificate-based signing** support ensuring compliance with industry standards; created comprehensive **PDF utility API** suite (merge, split, page manipulation, compression and many more) handling significant daily traffic
- ❖ **API development & integration:** Engineered scalable **microservice wrappers** for third-party verification services (**Credit Reports, Land Records, Identity Verification**); implemented resilient patterns including circuit breakers, exponential backoff, and retry logic for high availability
- ❖ **System maintenance & reliability:** Maintained **SureReach** lead intelligence platform with zero critical incidents; delivered high-impact features including **email notification system** with **templating engine**, **intelligent fallback mechanisms**, and **monitoring dashboards** for faster incident resolution
- ❖ **RAG implementation:** Developed production-grade **Retrieval-Augmented Generation** system for conversational PDF interactions, enabling **global semantic search** across document repositories with fast response times and high relevancy
- ❖ **AI-augmented productivity:** Leveraged **LLM-assisted development (Windsurf)** for rapid prototyping and boilerplate generation while maintaining production code quality through systematic code review, refactoring, and performance optimization

Skills

Python, TypeScript, Python – FastAPI, Flask, Node.js, React, Express.js, Next.js – PostgreSQL, MongoDB – Temporal, Celery, Git, Docker, Zod

Projects

GatherHub: Full-Stack Event Discovery and Management Platform

[Source-Code](#) | [Live-Link](#)

- **Tech Stack:** Node.js, Express.js, PostgreSQL, Prisma, TypeScript, React, Vite, Zod, JWT
- Implemented **JWT-based authentication** and role-based **access control** (Admin, Organizer, Viewer) for **3** distinct user roles.
- Designed and developed **10+ RESTful APIs** with **Express.js**, integrating **Prisma** ORM for efficient data handling.
- Created dynamic **React** components for event **creation**, **browsing**, and **registration** functionalities.
- Incorporated **error handling** and **data validation**, enhancing application reliability.

ECHOINK: Full-Stack Blog Platform with Serverless Deployment

[Source-Code](#) | [Live-Link](#)

- Developed a **Full-stack** blog platform using **Cloudflare Workers** for **serverless deployment**, **Hono.js** for routing, and **Accelerator** for efficient **database connection pooling**
- Implemented **user authentication** and **CRUD** operations for **blogs** with **Prisma** as the ORM and **PostgreSQL** as the database.
- Built the front end with **React** and **Vite**, styled with **Tailwind CSS**, and utilized **Zod** for **data validation** across both the front end and back end by deploying an npm package
- Managed deployment and configuration with **Wrangler**, ensuring seamless integration and scalability on **Cloudflare Workers**

Education

Bachelor of Technology - Computer Science Engineering

Jagannath University

8/10 | 2019-23

India