

## Skills

- **Backend Development:** Node.js, Express.js, TypeScript, NEXT.js, Loopback.js, Java, REST API, docker
- **DataBases:** SQL, MySQL, PostgreSQL, MongoDB, Elasticsearch, Redis
- **Frontend:** Angular.js, React.js, HTML5, CSS3
- **Cloud & Tools:** AWS (S3, OpenSearch, RDS, EC2), Docker, Jenkins, Vercel

## Professional Experience

### Valuefy | Software Development Engineer

Mumbai | August 2022

- Developed comprehensive **Portfolio Management System (PMS)** portals for leading international and national advisory firms catering around **2.5 million** clients, by integrating sophisticated reporting modules and streamlining the client onboarding journey, resulting in improved user experience and significantly reduced onboarding time.
- Successfully migrated critical reporting data infrastructure from traditional **MySQL** databases to high-performance **Elasticsearch** clusters, accelerating PMS portal modules by **25%** while optimizing data retrieval mechanisms for report generation and display, especially for datasets handling **millions** of records daily.
- Engineered substantial performance improvements for core reconciliation and reverse feed engines by meticulously identifying and eliminating **Loopback model ORM** query overheads and implementing sophisticated data batching techniques, reducing processing time by **25%** for **1.5 million** records and enhancing system scalability.
- Designed and implemented a comprehensive maker-checker validation framework for updating sensitive investor and bank master data, incorporating multi-level approval workflows and audit logging reducing manual data fixes by **45%** and increasing the operational efficiency significantly.
- Optimized a **Revenue Management Engine**, improving performance by **50%** efficiently processing data volumes of **1.75 million** records, and integrated the optimized service into the existing monolithic application using **docker**, significantly reducing processing time and system resource utilization across the platform.

### SBA Orions ITSolutions LLP | Software Engineer

Jhansi | March 2021 - August 2022

- **Improved API Efficiency:** Enhanced MaterialBuy e-commerce platform API performance by **50%** through strategic decoupling of intensive logging operations into dedicated **MongoDB** instances, substantially reducing the load on the transactional **MySQL** database while maintaining data integrity and improving overall system response times.
- **Feature Implementation:** Conceptualized and delivered mission-critical backend features for the MaterialBuy platform, including an enterprise-grade bulk order processing system, dynamic freight rate calculation engine with multiple carrier integration, and customizable discount configuration framework, collectively increasing operational efficiency by **20%**.
- **Optimized Backend Performance:** Developed robust payment processing modules integrating **Razorpay** and **PayPal** APIs with sophisticated error handling and transaction management, while offloading non-critical operations such as logging, email notifications, and analytics to asynchronous processing using **Redis Message Queue**, reducing core payment processing time by 30%.
- **Cross-Team Collaboration:** Maintained **99.9%** system uptime by coordinating cross-functional initiatives with frontend developers and DevOps specialists to deploy robust, highly available, and horizontally scalable backend solutions with automated failover mechanisms and comprehensive monitoring.
- **Codebase Migration to TypeScript:** Migrated the **JavaScript** codebase to **TypeScript**, enhancing code robustness, maintainability through static type checking improving developer productivity, enabling better IDE support, facilitating faster.

## Projects

### BudgetHive

RepoLink: [GitHub](https://github.com)

- Architected and developed a production-ready financial management application with **Gemini AI** integration for personalized insights, built using **Next.js** with **ShadCn.Ui** and **PostgreSQL** with **Prisma** ORM, implementing **Clerk authentication** and receipt scanning technology, currently live on **Vercel**.
- Engineered interactive data visualization components with responsive bar and pie charts, enabling real-time financial tracking against customizable budget thresholds, increasing user financial awareness and budget adherence.
- Automated notification infrastructure using **Inngest** for threshold alerts and AI-powered monthly reports, providing users with actionable financial recommendations based on spending patterns.
- **Arcjet** implementation for **bot protection** and **rate limiting**, ensured app integrity and safeguarding sensitive financial data.

## Education

Bundekhand Institue of Engineering and Technology | B.Tech

Jhansi | 2016 - 2020