

Shubham Gupta

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EDUCATION

BTech. in Computer Science

Delhi, India | Jun 2021

DR. AKHILESH DAS GUPTA INSTITUTE OF TECHNOLOGY AND MANAGEMENT, GGSIPU

WORK EXPERIENCE

SMART JOULES | SOFTWARE ENGINEER - BACKEND

Delhi, India | Jun 2023 – Present

- Refactored and **optimized API endpoints**, transitioning from **DynamoDB** to **InfluxDB** to enhance **performance** and **scalability**. Implemented **InfluxQL queries** and performed data transformations, resolving **edge cases** to ensure **data integrity** and **consistency** in **IoT device data management**.
- Developed and **deployed APIs** for **backend configurations** and user interface enhancements, boosting system usability and **data handling**. Created APIs for configurator pages, including functionalities for **navigation**, **publishing**, **ordering** and **deletion**, and managed advanced table configurations such as orientation and accordion-style grouping. Enhanced **system-wide connectivity** with **global sync APIs**, ensuring consistent data synchronization.
- Architected a scalable, event-driven “Smart Alert” system using four Node.js microservices that ingests real-time IoT events via **Kafka**, manages alert state transitions (Occurred/Resolved) in **PostgreSQL** and **Redis**, enriches with **DynamoDB** site/user data, and publishes channel-specific notifications through **InfluxDB** analytics, **AWS SES** emails, and **WhatsApp** (Yellow.ai), with robust error monitoring in **Sentry** and role-based access control. **Tech Stack: Node.js, Express.js, Kafka, Redis, PostgreSQL, DynamoDB, InfluxDB, AWS SES, Yellow.ai, Sentry.**

BETAFLUX | ASSOCIATE SOFTWARE ENGINEER

Bengaluru, India | May 2022 – May 2023

- Developed a **server-side application** that integrates with Point of Sale (POS) systems, using **Google Cloud Pub/Sub** for handling and routing order processing from client applications to the appropriate **POS APIs**.
- Developed the **Ultraviolette’s** main website with **React.js**, emphasizing a **responsive** and user-friendly design. Utilized **Context API** for **state management**.

PROJECTS

JOTSPOT

REACT.JS, TYPESCRIPT, MATERIALUI, REACT-HOOK-FORM

- Created a note-taking app with features like **custom tags**, **search by title/tags**, **local storage** for data persistence, **Markdown** for rich text formatting, and thorough **field validations** to ensure data accuracy.

FLOWCHAT

REACT.JS, MONGODB, NODE.JS, SOCKET.IO

- Implemented **JWT authentication via cookies** for identity security, **Socket.io** for real-time messaging and status updates, and **iOS-style notifications** for user alerts.
- Employed **Mongoose** for structured MongoDB data modeling and implemented robust error handling through **toast notifications** for clear feedback.

EXPENSEGQL

REACT.JS, PASSPORT.JS, APOLLO GRAPHQL, MONGODB

- Provides **secure user login** and **robust session management** using **Passport.js**, with **MongoDB** serving as the **session store**, ensuring secure and efficient session handling.
- Utilizes **Apollo Client** and **GraphQL** to streamline **data management**, facilitating structured and selective fetching. Features a **normalized cache** that minimizes network usage, **synchronizing the UI** swiftly and ensuring real-time data access.

SKILLS

Frontend: JavaScript/ES6, TypeScript, Tailwind CSS, React.js, Context API, Redux Toolkit, Apollo Client.

Backend: Node.js, Express.js, RESTful APIs, GraphQL, Socket.io, JWT, Redis, RabbitMQ, Kafka, Docker.

Database: Redis, PostgreSQL, Prisma, DynamoDB, InfluxDB.

Other: Git, Operating Systems, Computer Networks, OOPs, Data Structures & Algorithms.