

AMAN TYAGI

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FULL STACK WEB DEVELOPER

Backend-focused Full-Stack Developer with 3+ years of experience designing and building scalable, high-performance systems using TypeScript, Node.js, PostgreSQL, MongoDB, and Drizzle ORM. Specialized in developing event-driven architectures with Kafka, background processing pipelines, and distributed job queues for bulk data ingestion and third-party API synchronization. Strong foundation in Data Structures & Algorithms, Domain-Driven Design (DDD), and system design, with a proven ability to architect reliable microservices, optimize database performance, and automate complex workflows in production environments.

STRENGTHS AND EXPERTISE

Full-Stack web Development	Authentication & Security	Team Leadership
React & React Native	Database Management	Communication
API Integration & Development	Version Control & Deployment	Responsive & Mobile-First
Agile Methodologies	Client Relationship Management	Design

PROFESSIONAL EXPERIENCE

Brain-mentors pvt ltd

April 2023 - December 2024

Full stack developer and Trainer

Led the development of end-to-end web applications using the MERN stack (MongoDB, Express, React, Node.js), delivering scalable, secure, and performant solutions. Designed and implemented RESTful APIs, integrated third-party services, and optimized both frontend and backend systems. Specialized in building responsive UIs with React and React Router DOM, managing state with Redux, and securing user authentication with JWT and encryption. Collaborated with cross-functional teams to meet project goals while ensuring code quality, deployment efficiency, and timely delivery.

Accomplishments:

- Designed RESTful APIs for the backend, ensuring seamless communication between the client-side and server-side.
- Integrated third-party services such as payment gateways and email services.
- Collaborated with designers and stakeholders to implement user-friendly and responsive UI components.
- Deployed applications to cloud platforms, utilizing AWS and Docker for scalability and performance optimization.

Stealth technocrats pvt. ltd.

January 2025 - current

Full stack developer

Led the design and development of scalable backend systems using TypeScript, Node.js, PostgreSQL, and MongoDB, focusing on performance-critical product and fintech workflows. Architected event-driven pipelines with Kafka for bulk data ingestion and third-party API synchronization, significantly improving system reliability and throughput. Designed and implemented domain-driven REST APIs, background job processors, and transactional data flows, while optimizing database queries and caching strategies. Collaborated closely with frontend, DevOps, and product teams to deliver production-ready features with strong emphasis on system design, DSA-driven performance optimization, and clean architecture principles.

Accomplishments:

- Designed and implemented scalable RESTful APIs using TypeScript and Node.js, enabling seamless communication between distributed services.
- Integrated and managed multiple third-party APIs with robust error handling and retry mechanisms.
- Containerized backend services using Docker and implemented complete CI/CD pipelines with GitHub Actions for automated testing, build, and deployment workflows.
- Collaborated with product, frontend, and QA teams to ensure smooth feature rollouts, code quality, and production stability.

SKILL AND LANGUAGES

Programming Languages	Backend Development	Frontend (Admin & Dashboard)
<ul style="list-style-type: none">• TypeScript• JavaScript (ES6+)• Java• Python• C / C++	<ul style="list-style-type: none">• Node.js• Express.js• REST API Design• Domain-Driven Design (DDD)• MVC Architecture• Data Structures & Algorithms (DSA)	<ul style="list-style-type: none">• React.js• Next.js• State Management (Redux / Context API)• HTML5, CSS3
Tools & Practices	Databases	DevOps & Cloud
<ul style="list-style-type: none">• Git & GitHub• Agile / Scrum Methodologies• Third-Party API Integration• System Design & Microservices Architecture	<ul style="list-style-type: none">• Kafka (Event-Driven Systems)• BullMQ / Background Job Queues• MongoDB (NoSQL)• PostgreSQL / SQL• Drizzle ORM• Redis (In memory)	<ul style="list-style-type: none">• Docker• GitHub Actions (CI/CD)• AWS (EC2, S3, RDS – basics)• Linux Server Administration• Cron Jobs & Process Managers (PM2)

EDUCATION

Bachelor of Technology

Dr. APJ Abdul Kalam University
Computer Science and Engineering (CSE): 8.9 CGPA
2020 - 2024

Master of Technology

Dr. APJ Abdul Kalam University
Computer Science and Engineering (CSE)
2025 - current

PROJECTS

SkillRisers – Learning Management Platform

MERN Stack

Designed and developed a scalable LMS backend using TypeScript, Node.js, PostgreSQL, and MongoDB with a strong focus on Domain-Driven Design (DDD). Architected event-driven workflows using Kafka for course publishing, enrollment processing, and notification services. Implemented secure, high-performance REST APIs, background job processors, and transactional data flows. Containerized services with Docker and automated build & deployment pipelines using GitHub Actions, enabling reliable CI/CD and production-ready releases.

Accomplishments:

- Reduced API response time by optimizing Axios requests and implementing caching strategies.
- Integrated responsive design and improved the search functionality, enhancing user engagement by 20%.

MoneyMash – Fintech Wallet & Transaction Platform

MERN Stack

Designed and developed a high-performance fintech backend using TypeScript, Node.js, PostgreSQL, and MongoDB for managing wallets, user balances, and transaction histories. Architected event-driven transaction pipelines with Kafka to ensure reliable processing of deposits, withdrawals, and transfers. Implemented domain-driven aggregates for ledger consistency, optimized database queries for large financial datasets, and integrated secure authentication, audit logging, and reconciliation workflows.

Accomplishments:

- Enhanced system security by integrating JWT and robust password encryption techniques.
- Achieved a 25% performance boost by optimizing database queries and implementing pagination for large datasets.

Automated Data Sync Pipeline (Third-Party API Feeder)

Node.js, BullMQ, Axios, MongoDB, PostgreSQL, Redis

Architected and implemented a dedicated microservice for automated third-party API data ingestion, enabling real-time synchronization of external hotel inventory and pricing data. Built the service using TypeScript and Node.js, incorporating event-driven workflows with Kafka, background processing pipelines, and robust retry & failure-handling mechanisms. Secured internal service communication, optimized API throughput, and ensured high reliability for continuous data fetching and system-wide availability updates.

Accomplishments:

- Reduced manual data synchronization efforts by 70% by designing a fully automated, Kafka-driven microservice for third-party API ingestion.
- Improved system reliability by implementing intelligent retry, dead-letter queues, and failure recovery mechanisms, ensuring uninterrupted data flow from unstable vendor APIs.
- Increased data processing throughput by 3× through event batching, optimized concurrency handling, and efficient background job pipelines.
- Enhanced observability by introducing structured logging, centralized error tracking, and performance metrics for all ingestion workflows.

Tomatotrails (B2C Activity and Transfer Booking system)

MERN STACK - (Current)

Designed and developed a scalable B2C booking platform enabling users to discover, book, and manage transfers and activities worldwide. Built the backend using TypeScript and Node.js with a strong emphasis on Domain-Driven Design (DDD) to model complex booking, pricing, and availability domains. Architected Kafka-based event-driven workflows for booking confirmation, inventory synchronization, and notification services.