


Tinku Kumar

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Professional Summary

I am a Full Stack Developer with over 4 years of experience in building robust web applications utilizing technologies like Node.js, NestJS, and React.js. My expertise lies in microservices architecture, CI/CD pipelines, and database management systems. I have proven my ability to lead teams, optimize codebases, and ensure application quality in agile environments. I am passionate about delivering high-impact solutions and committed to continuous learning

Skills

Programming Languages	JavaScript,Python, TypeScript, SQL
Libraries/Frameworks	Nodejs, ExpressJs, Serverless, NestJS, ReactJs
Database	Mongodb(NoSQL), MySQL, Postgresql(SQL), DynamoDb(NoSQL)
Cloud	AWS, GCP, AZURE
Methodology	Agile (SCRUM)
Version Control & Collaboration	GIT, JIRA, GitHub, GITLAB, BITBUCKET
Microservices	Docker, Kubernetes
Performance Testing	Jest (unit testing)
Data Processing and Messaging/EAI	Apache Kafka, SQS, rabbitMQ
Web Development	REST APIs, GraphQL, WebSockets

Experience

Mariox Software Pvt Ltd. | Software Engineer Noida | Nov 2024 – Present

- Led a team of 11 developers to build and maintain scalable **NestJS microservices** with MongoDB, Redis, and Kafka, ensuring high availability and performance.
- Designed and deployed **CI/CD pipelines** using GitHub Actions and AWS CodeDeploy, enabling zero-downtime deployments and faster release cycles.
- Integrated **AWS Lambda, SQS**, and **Step Functions** for background processing jobs, improving system scalability and fault tolerance.
- Refactored legacy services, implemented **Redis caching**, and optimized database queries, resulting in 50% faster API response times.
- Developed dynamic admin dashboards with **React.js, Ant Design**, and real-time updates via **WebSockets**, improving UX and reducing support queries by 30%.

Aieze Vertex Pvt Ltd. | Software Engineer Noida |May 2024 - Nov 2024

- Working as a dedicated full-stack developer and team lead for a team of 5 members.
- Leading the development and enhancement of backend microservices, ensuring scalability and efficiency.
- Managing the end-to-end development process, from design to deployment, using Node.js, React.js, Docker, MongoDB, and AWS.
- Implementing CI/CD pipelines with AWS CodeDeploy and Github actions to streamline releases.
- Collaborating with cross-functional teams to meet project objectives, provide technical guidance, and mentor team members.

Akal Systems Ltd. | Software Developer Delhi |Nov 2023 - Feb 2024

- Work as a dedicated software developer on full stack development.
- Manage and improve code with 9+ team members.
- Implementing CI/CD pipelines with AWS CodeDeploy and Github actions to streamline releases.

Appsinvo Pvt. Ltd. | NodeJs Developer

Noida | Mar 2022 - Nov 2023

- **Experienced** Full Stack Developer focused on enhancing website performance and delivering high-quality code. Successfully contributed to 7+ projects for clients across multiple countries including IN, UK, NL, US, and AUS. Skilled in technical estimation, project analysis, and proficient in Node.js, React.js, MongoDB, MySQL, OracleDB, Express.js, REST APIs, AWS, Serverless, and Nest.js.
- Developed and managed full-stack applications using Node.js and React.js.
- Integrated MongoDB, MySQL, and AWS for scalable backend solutions.
- Led end-to-end development, including backend architecture, database management, and frontend user experience.

Dotsquares Technologies Pvt. Ltd. | MERN Stack Developer Jaipur | Oct 2021 - Mar 2022

- Worked as a dedicated MERN Stack Developer on 2 projects in the e-commerce and sports domains.
- Collaborated with a team of 7+ members, contributing to both frontend and backend development.
- Managed database schemas, stored procedures (SPs), functions, and triggers in MySQL.
- Designed and implemented full cart management functionality, including user interactions and purchase flows on both the frontend and backend



Education:

- **2022: B.Tech in Computer Science Engineering** from ICFAI University, Jaipur (8.7/10 CGPA)

Project



• **NUMBERDEKHO** (Mariox Software Pvt Ltd)

- **Type: Home Services Booking Platform**
- **Duration: Nov 2024 – Present**
- **Role and Responsibilities:**
 - Designed and developed scalable **NestJS, Django microservices** for booking, vendor matching, authentication, and service management.
 - Built dynamic **city-service SEO pages** using **Next.js**, integrated with MongoDB and server-side rendering logic for optimized performance and search visibility.
 - Created a **multi-screen booking flow** (Screen-1 to Screen-5) to manage service selection, address entry, schedule selection, and confirmation.
 - Developed a **real-time vendor alert system** using **WebSockets** to notify multiple maids instantly based on geolocation and availability.
 - Implemented smart **search radius expansion logic** (from 3km to 5km over 180 seconds) for vendor discovery using custom algorithms.
 - Integrated **Redis caching** and MongoDB aggregation to achieve sub-100ms API response times for critical user flows.
 - Automated **Google Sheets sync** for each booking to maintain operational transparency and reporting.
 - Set up **AWS CloudFront** and S3 caching strategies to reduce frontend load time and optimize billing costs.
 - Built an internal **admin panel** with dynamic filters, exports, booking history, and scheduling tools using **React.js** and **Ant Design**.
 - **EAI** (Kafka)
- **Brief:** City-based hyperlocal booking engine that connects users with service professionals (maids, electricians, etc.) using real-time alerts, SEO-optimized dynamic pages, and a multi-step booking workflow with service-level personalization.
- **Tech Stack:** NestJS, Node.js, React.js, Next.js, MongoDB, Redis, AWS EC2/S3/CloudFront, Google Sheets API, WebSockets, Kafka, BullJS, JWT Auth, Role-Based Access Control (RBAC), Helmet.js, Rate Limiting.

• **LINK** (Aieze Vertex Pvt Ltd)

- **Type: Real-Time Communication Platform (Gmail + Zoom Clone)**
- **Duration: May 2024 – Nov 2024**
- **Role and Responsibilities:**
 - Developed **Socket.IO-based chat and video conferencing system** with real-time notifications and presence management.

- Designed and deployed **microservices architecture** for auth, chat, meetings, payment, and admin modules using Node.js and Kafka.
 - Integrated **AI transcription system** using AWS AI and TensorFlow for Meeting Management System (MOM).
 - Deployed scalable CI/CD pipelines with Jenkins and GitLab for AWS & GCP infrastructure.
 - Implemented **RTMP live streaming support** to YouTube, Facebook, X (Twitter), and LinkedIn.
 - Used PostgreSQL and MongoDB Atlas to manage hybrid relational and NoSQL datasets.
 - Configured caching, logging, and monitoring tools across multiple cloud environments.
- **Brief:** LINK is a real-time collaboration tool for enterprises that combines email-style messaging, live meetings, and AI transcription into one unified experience.
- **Tech Stack:** Node.js, NestJS, Angular.js, PostgreSQL, MongoDB Atlas, Kafka, WebSockets, Docker, Jenkins, GitLab, AWS (RDS, EC2, Lambda), GCP, RTMP, TensorFlow, AWS AI, Redis, Socket.IO.

- **MAID KART (Mariox Software Pvt Ltd)**

- **Type:** B2C Maid Hiring Platform
- **Duration:** Feb 2024 – Present
- **Role and Responsibilities:**
 - Developed scalable microservices in **NestJS** to manage maid listings, availability, and user requests.
 - Implemented real-time **maid alert system** using **WebSockets** and Redis Pub/Sub for instant notifications on booking requests.
 - Built **smart vendor selection logic** with expanding search radius (3km → 5km) and time-based fallback using BullJS queues.
 - Designed a booking engine capable of handling availability conflicts, vendor reassignment, and booking lifecycle tracking.
 - Integrated Kafka-based event communication for decoupled microservice interactions.
 - Managed schedule updates and cancellations through an internal admin panel built using React.js and Ant Design.
- **Brief:** Maid Kart is a real-time domestic helper booking platform with geolocation-based search and smart fallback logic, aiming to reduce maid response time and improve fulfillment success.
- **Tech Stack:** NestJS, Node.js, MongoDB, Redis, WebSockets, Kafka, BullJS, React.js, Ant Design, JWT Auth, RBAC, Docker, AWS EC2/S3.

- **KURTA B2B PLATFORM (Appsinvo Pvt Ltd)**

- **Type:** B2B Wholesale Fashion Marketplace
- **Duration:** Feb 2022 – Jun 2023
- **Role and Responsibilities:**
 - Designed multi-vendor system for inventory control, tiered pricing, and order management.
 - Developed product listing, search, and filter features using **React.js** and **Ant Design**.
 - Managed backend operations including product sync, order tracking, and invoice generation using Node.js and MongoDB.
 - Integrated image upload optimization and **CloudFront caching policies** to reduce load time and bandwidth usage.
 - Built user role system with admin, vendor, and buyer permissions using JWT and RBAC principles.
- **Brief:** A B2B commerce solution connecting kurta manufacturers with retailers across India, providing stock visibility, bulk order pricing, and operational dashboards.
- **Tech Stack:** Node.js, React.js, MongoDB, AWS S3, AWS CloudFront, Formik, Ant Design, JWT, RBAC.