

Nagendra Kumar

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SKILLS AND TECHNICAL KNOWLEDGE

- **Programming Languages:** Golang, Node.js, Typescript, JavaScript, Python
- **Messaging/Queuing:** Kafka, RabbitMQ, Google Pub/Sub
- **Cloud/DevOps:** Kubernetes, Docker, Jenkins, Rancher, ArgoCD, GCP
- **Databases/Data:** MongoDB, Mysql, Cloud Spanner, Web scraping, Selenium Webdriver
- **Architecture/Methodologies:** Uber dig, Microservices Architecture (Fastify, Express, Django), Agile methodology.

WORK EXPERIENCE

Brevo (formerly known as Sendinblue)
Senior Software Engineer(Backend)

July 2021 – Present
Noida, India

- **High-Volume Import Engine:** Designed and implemented a high-volume import engine, managing ~417 million daily bulk operations (~45% of total system load) while maintaining rigorous data integrity.
- **Critical HTTP Service:** Developed, maintained, and scaled a core HTTP service successfully processing ~245 million daily requests with consistently low latency.
- **Database/Client Optimization:** Deployed a merging algorithm to consolidate duplicate contact records, optimizing database storage, reducing redundancy, and enhancing client experience.
- **API Wrapper Maintenance:** Provided ongoing maintenance for the official Ruby wrapper library for the Brevo (formerly Sendinblue) API.
- **Data Resiliency/Disaster Recovery:** Engineered robust data restoration and fallback mechanisms using Google Cloud Spanner (dual database source) to ensure high availability and business continuity.
- **Zero-Downtime Migration:** Strategically planned and executed a complex, live production migration of critical services from RabbitMQ/Google PubSub to Apache Kafka with zero downtime.
- **In-House Kafka Routing Solution:** Developed and deployed a custom Kafka router to replicate an essential fanout architecture, enabling efficient message consumption by multiple downstream services.
- **Proactive Monitoring/Incident Resolution:** Employed continuous monitoring with advanced observability tools for rapid identification, diagnosis, and resolution of technical incidents, consistently meeting SLOs.
- **24/7 On-Call Support:** Provided reliable, round-the-clock (24/7) on-call support and immediate critical alert response, ensuring maximum system uptime.
- Utilized uber-dig for dependency injection in Golang applications.

EDUCATION

Dr. A.P.J. Abdul Kalam Technical University
B.Tech with 1-DIV HONS, Majors Computer Science (8.62 CGPA)

June 2021
Greater Noida, India

AWARDS & CERTIFICATION

- Received the [Star Performer](#) Award and other recognitions (Brevo formerly Sendinblue)
- Infosys Certified [Software Programmer](#)

PROJECTS

- **quick-dev-setup:** Automated Dev onboarding ([open-source](#), cross-platform AI)
- **Speech Emotion Recognition** ([IEEE published](#); lead developer using CNN, MFCC, STFT)
- **TrackME:** E-commerce price [tracker](#) (NodeJs, Express, MongoDB, Sendinblue SMTP)
- **Easy Classes:** NGO awareness [site](#) (Django, HTML5, CSS3, JS, Bootstrap)

PERSONAL INFORMATION

DOB: 17/07/1999. **Languages:** English, Hindi. **Interests:** Travel, Swimming, Badminton.