

Aman Panwar

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SUMMARY

Dedicated Software engineer with 1+ year of experience building high-performance production systems. Skilled in event-driven architectures, payment integrations, and designing efficient data pipelines. Proven ability to enhance system performance and reliability while owning the lifecycle from schema design to deployment. Passionate about leveraging technology to deliver scalable and innovative solutions.

SKILLS

Languages & Frameworks: C/C++, JavaScript/TypeScript, Node.js, Next.js, React.js, Strapi, ShadCN

Databases: MySQL, PostgreSQL, MongoDB, Redis

Tools & Technologies: Docker, Prisma, Kafka, Azure Service Bus, Git, Postman, DigitalOcean Platform

EXPERIENCE

Bytve Technology: | *Software Developer* January 2025 – Present

- Worked extensively with **Node.js, MongoDB, SQL, Docker, Redis, Digital Ocean, Azure Bus Service, event-driven architecture, asynchronous processing, payment integrations, and background jobs.**
- Designed **scalable backend systems**, improving **API performance** and **reliability**.
- Improved **database efficiency** by optimizing **MongoDB aggregations** and **SQL queries**.
- Built secure integrations (**payments, storage, jobs**) ensuring **data integrity** and **fault tolerance**.
- Implemented **event-driven workflows** and **asynchronous processing** to enhance **system scalability**.
- Containerized services with **Docker** and deployed on **Digital Ocean** for **production infrastructure**.

PROJECTS

Ticket Master | *Node.js, Express, PostgreSQL, Redis (Lua, Pub/Sub), Elasticsearch, Stripe, Next.js, Docker* Aug 2026

- Architected a 4-service, 3-worker ticketing platform behind a gateway, isolating booking spikes from browse traffic.
- Prevented double-booking under concurrency with 3 independent guards (Redis, Postgres CAS, DB constraint).
- Delivered real-time seat availability via SSE + Redis pub/sub at constant cost, scaling 50 to 50,000 seats.
- Built a fair virtual waiting room (leader-elected admission, lottery draw) statistically proven bias-free across 1,000 users.

URL Shortener | *Node.js, Express, PostgreSQL, Redis (Streams, Lua), Next.js, TypeScript, Docker* June 2026

- Architected a microservices URL shortener with separate read/write services behind an API gateway, scaling the redirect path independently of link creation.
- Implemented collision-free short codes via atomic Redis INCR + base62, unique across instances without locks, plus cache-aside redirects to keep hot lookups off PostgreSQL.
- Built an async click-analytics pipeline on Redis Streams consumer groups with batched writes
- Enforced per-IP rate limiting at the gateway using a token-bucket in a Redis Lua script.

PC Jeweller | *Node.js, MongoDB, Azure Service Bus, Background jobs(corn), S3, DO Spaces* Dec 2025 – Present

- Built and maintained inventory synchronization across retail stores and website using message queues, ensuring real-time consistency in product availability and **gold pricing**.
- Built nearby store discovery to find available inventory, improving product visibility.
- Enhanced pricing engine for **gold and diamond products** by improving price master logic and real-time rate updates, increasing pricing accuracy and calculation efficiency by 40% for a catalog of 10,000+ products.
- Engineered dual-gateway payment flow (**PayU + VoucherGram**) with secure hash verification, idempotent webhook processing, and automatic transaction reconciliation for live transactions.
- Migrated **AWS SQS to Azure Service Bus** for omni-channel events across all PCJ stores and website.

EDUCATION

Bachelor of Engineering And Technology(AI&ML) Oct 2021 – June 2025

A.P.J Abdul Kalam Technical University

Senior Secondary Apr 2020 – June 2021

Rawal Public School