

PRASHANT SHAH

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SUMMARY

Backend Engineer specializing in Node.js and TypeScript, with hands-on experience building scalable, event-driven systems on AWS. Strong focus on data integrity, performance optimization, and production reliability, with additional exposure to .NET/C# in enterprise environments.

SKILLS

Languages: TypeScript, JavaScript (ES6+), C#, SQL

Backend & Systems: Node.js, Express.js, Microservices, Event-Driven Architecture (BullMQ), WebSockets

Cloud & DevOps: AWS (Serverless, EC2, Auto Scaling), Docker, Nginx, Cloudflare Workers, Linux

Data & Quality: Redis (Caching/Queues), MongoDB, PostgreSQL, MS-SQL, Artillery (Load Testing)

PROJECTS

TuberService — Scalable Video Streaming Platform | *TypeScript, Node.js, AWS, Redis, Artillery* **2024**

GitHub: github.com/prashantshah22/tuberService

- **Architectural Evolution:** Migrated video pipeline from a local **BullMQ** queue to serverless **AWS Lambda & MediaConvert**, enabling auto-scaling for burst traffic.
- **Performance Engineering:** Validated system behavior under burst traffic using Artillery load tests, identifying scaling bottlenecks and confirming stable upload throughput with AWS auto-scaling.
- **Data Integrity:** Enforced strict request/response contracts using **TypeScript DTOs** with **class-validator** and **class-transformer**, preventing malformed or tampered payloads across service boundaries.
- Implemented adaptive bitrate streaming (HLS) using private AWS S3 buckets, controlling access via object-level permissions and signed URLs to enable secure public and private streaming.

eBook Platform — gitlab.com/prashantshah22/ebook | Node.js, AWS, React **2024**

- Full-stack digital marketplace for authors to securely upload and sell eBooks, with automated payment processing and delivery.
- Designed and implemented robust, role-based JWT authentication using secure HTTP-only cookies.
- Implemented Razorpay webhook callbacks with signature verification to confirm payments before granting secure PDF access via AWS S3 pre-signed URLs.

Additional projects available at — <https://prashantshah.dev>

EXPERIENCE

Software Engineering Intern (Backend) | Technables IT Solution **Sep 2025 - Present**

- Developed enterprise-grade backend modules using **.NET/C#**, enforcing strict **layered architecture** and clean code principles.
- Optimized database performance by designing complex Stored Procedures in **MS-SQL**, significantly reducing fetch latency and API response times.
- Implemented schema validation and role-based access control to enforce secure data handling across Department and Employee modules.
- Engineered efficient data retrieval patterns with pagination and soft deletes, minimizing unnecessary data transfer and DB load.

Network Support Engineer | Tribhuvan International Airport (TIA CAO) **5 Months**

- Maintained high-availability network systems and server uptime for critical airport infrastructure.
- Diagnosed and resolved hardware/network bottlenecks, gaining deep experience in **DNS, TCP/IP, and Linux server troubleshooting**.

CERTIFICATION & EDUCATION

AWS Cloud Architecture Training | *WAP Institute* **2023**

B.Sc. Computer Science & Information Technology IOST,TU **2026**