

USMAN ALI

Backend Engineer | Node.js · AWS Serverless · Distributed Systems · PostgreSQL · MongoDB

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Backend Engineer with 3.5+ years of experience building scalable, cloud-native systems and automation pipelines. Specialized in serverless architecture on AWS (Lambda, ECS, SQS, EventBridge) and distributed backend design with Node.js, NestJS, and PostgreSQL. Delivered production systems processing millions of records monthly across e-commerce, HRMS, and data migration domains. Passionate about clean architecture, performance optimization, and solving high-complexity engineering problems.

TECHNICAL SKILLS

Languages & Frameworks: Node.js, NestJS, Express.js, JavaScript, TypeScript, React.js

AWS & Cloud: Lambda, ECS, SQS, SNS, EventBridge, API Gateway, Step Functions, S3, CloudWatch, Route 53, EC2, DynamoDB

Databases: PostgreSQL, MongoDB, DynamoDB, Redis

Architecture: Serverless, Microservices, Event-Driven Architecture, Distributed Systems, REST API Design

DevOps & Tools: CI/CD, Datadog, Git, Unified.to, Power BI

Integrations: Amazon SP API, Amazon Advertising API, Shopify, QuickBooks, Xero, Unified.to, Stripe

PROFESSIONAL EXPERIENCE

Backend Engineer III · Paismo

Aug 2025 – Present

Node.js · PostgreSQL · NestJS · Microservices · Unified.to

- Built the Reporting Engine from scratch, enabling company admins to generate comprehensive monthly employee reports covering payroll history, attendance, timesheet hours, leave balances, deductions, and allowances. Consolidated data previously scattered across multiple modules into a single structured report.
- Architected the Employee Lifecycle module, providing a complete immutable audit trail for all employee record changes, including shift updates, bank details, leave policies, and compensation adjustments. Ensures full HR compliance and traceability across the platform.
- Developed Synapse Integration, a standalone NestJS microservice that enables bi-directional data sync between Paismo and external accounting platforms such as QuickBooks and Xero via Unified.to. Built with OAuth flow, cron-based scheduler, entity mapping tables, and snapshot tracking for reliable, resumable syncs.
- Strengthened backend security and API compliance across core modules

Software Engineer · Qbatch

Apr 2023 – July 2025

Serverless · MongoDB · PostgreSQL · AWS (ECS, SQS, Lambda) · Datadog · Amazon APIs

Pass Gallery Migration

- Designed and led a distributed AWS migration system using ECS, SQS and Lambda that reduced image migration time per client from 3 to 5 days down to under 24 hours, an 85% improvement.
- Built a dual-queue pipeline with 30 parallel Node.js workers across 3 virtual machines, achieving 80 to 90% higher throughput and 99.9% automation accuracy for 500k images per client monthly.
- Reduced operational costs by 40% and enabled migrations across PicTime, Pixieset, ShootProof and Zenfolio. Set up centralized observability via Datadog for real-time log tracking and automatic failure recovery.

Furniture Clinic

- Designed a scalable MongoDB schema and automated daily pipelines to process 30,000 Amazon orders per month, syncing Seller Central and Advertising API data with high accuracy and minimal manual effort.
- Integrated the system with Power BI to deliver real-time dashboards, reducing reporting overhead by 40 to 60% and enabling data-driven decision making for business performance.

European Outdoors

- Built a scalable warehouse management system with real-time data sync across Shopify, Amazon Seller Central and Vendor Central, cutting processing time by 30 to 50% and improving inventory accuracy.
- Implemented Node.js and MongoDB based automated reporting pipelines providing daily performance insights across multiple marketplaces.

Pro Seller Tools

- Built a full-featured MERN application for Amazon sellers integrating SP API and Advertising API, delivering ad performance dashboards and automated financial tracking that saved over 10 hours weekly.
- Developed scalable authentication, analytics and user management modules, owning the entire system from architecture to deployment.

Junior Software Engineer · Devsinc

Jul 2022 – Feb 2023

Node.js · Express.js · React.js · MongoDB

- Contributed to backend development and real-time features in production systems, applying core MERN stack skills to live client projects under senior engineering guidance

EDUCATION & CERTIFICATIONS

Bachelor of Science in Information Technology

2019 - 2023

PUCIT – Punjab University College of Information Technology, Lahore

Certifications

- Software Development with Amazon Q Developer – AWS
- AWS Cloud Quest: Cloud Practitioner – AWS
- AWS Learning: Serverless – AWS
- Multi-Region Failover with Amazon API Gateway
- Serverlesspresso – AWS Event-Driven Serverless Workshop
- HackerRank REST API Certification