

DURLAV BOSE

EXPERIENCE

Genesys Software LLC — Software Engineer

January 2022 - Present

#Led teams of 5–6 engineers, owning system architecture and delivery across multiple SaaS platforms.

#Built and scaled high-performance systems, including a rendering pipeline handling 50K+ daily requests with reduced latency and high reliability.

#Worked closely with product, design, and stakeholders to turn business requirements into scalable, production-ready systems.

SELECTED ENGINEERING IMPACT (PROJECT HIGHLIGHTS)

#Built a serverless image rendering pipeline using Lambda + headless browser automation; reduced high-resolution rendering from 40s+ to <10s and maintained 99.99% uptime while supporting 50K+ daily renders.

#Built Shopify apps integrating carriers, fulfillment providers, and ERP systems, enabling real-time tracking, conversion analytics, and automated product synchronization.

#Designed a fault-tolerant rendering architecture (retry strategy, isolation of failure domains, caching, and safe degradation patterns) to sustain high-volume workloads under bursty demand.

#Co-architected a multi-tenant commerce platform (themes, custom domains, checkout, logistics integrations) and optimized large-catalog search/retrieval to handle 100K+ products per tenant.

#Delivered a real-time task/project management platform designed for high concurrency (100K+ concurrent users target), including collaboration and analytics.

#Built global-ready real-time audio/video features for an online music learning platform (WebRTC + chat/notifications), plus scheduling, subscriptions, and admin operations.

#Automated complex business workflows for an enterprise forecasting/budgeting system, replacing error-prone spreadsheet processes with repeatable data imports, dashboards, and exportable reports.

#Built e-commerce solutions powered by NetSuite ERP data, enabling automated synchronization of products, inventory, customers, and order workflows.

#Integrated internal automation and reporting systems, improving operational visibility and reducing manual work.

APPLIED AI (PRODUCTION-ORIENTED)

#Integrated prompt-based AI customization into rendering workflows with guardrails to preserve product integrity and obey physical/print constraints.

#Built a personalized content system using Retrieval-Augmented Generation (RAG) to combine user context with book knowledge, including support for “unknown” books via retrieval.

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SKILLS

Full-Stack: TypeScript/JavaScript, Node.js, NestJS, REST/GraphQL, Microservices, Vue/Nuxt, React/Next

E-commerce: Shopify Apps, Shopify APIs, Webhooks, Liquid, Shopify Plus, NetSuite ERP

Data: PostgreSQL, MongoDB, Redis, DynamoDB, Redshift, BigQuery

Cloud/DevOps: AWS (Lambda, S3, EC2, Fargate, SQS, SNS), GCP (Cloud Run, BigQuery), Docker, Terraform, Ansible, CI/CD (GitHub Actions)

AI (Applied): Applied LLM Systems, RAG, Embeddings, Vector Databases, LangChain, LangGraph

ACADEMIC PROJECTS

Library Management System:

Full-stack app managing books/users/borrowing with PostgreSQL and Django.

Kidney Disease Prediction: ML model using Python/Scikit-learn (accuracy metrics available).

EDUCATION

B. Sc Engineering in CSE,
Rajshahi University of Engineering & Technology