AYUSH GUPTA

Noida, India

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Experience

Newgen Software Technologies Ltd.   **July 2025 – Present**
Software Developer   *Noida, India*

- Developing scalable **enterprise workflows** using **Java, SQL, and Spring Boot**, delivering 15+ enhancements and cutting downtime by 20%.
- Optimizing **backend services and database queries**, improving application response times by 30% across key business modules.
- Building and maintaining modules for a **Loan Management System**, improving automation, document handling, and approval processing.
- Designed and developed **Spring Boot REST APIs** for a **BMW Customer Portal**, including **contract details, customer information retrieval, metadata submission, and secure document upload services**.
- Integrated **JasperReports** for dynamic document and report generation, enabling structured PDF exports for contracts and operational reports.
- Created a **Receipt Bulk Upload Utility** supporting high-volume file imports with validations, significantly reducing manual processing efforts.
- Developed a **Report Viewer** to generate, filter, and export business reports, enhancing data visibility for operations teams.
- Contributing to a **microservices-based architecture** by designing modular services, improving scalability, reducing inter-service coupling, and enhancing deployment flexibility.
- Built reusable Java utilities for API validation, request processing, and deployment support, achieving **zero rollback incidents** in production.

Newgen Software Technologies Ltd.   **Mar – June 2025**
Software Developer Intern [Certificate]

- Worked extensively with **databases and SQL**, implementing **PL/SQL procedures, triggers, and cursors** for business logic automation
- Developed and tested **stored procedures** and database-side validations to support BPM and ECM workflows
- Built **basic REST APIs** using **Java Spring** to expose database operations and integrate internal services
- Contributed to **BPM process development** using **Java and SQL**, improving workflow execution and data consistency
- Assisted in **ECM module integration**, handling API interactions, data mapping, and workflow maintenance
- Supported **debugging, deployment, and performance optimization** across enterprise modules

Lenskart   **June – July 2024**
SDE Intern [Certificate]

- Built a **Remote Optometry Service** using **React, Node.js, and WebRTC**, enabling eye tests without in-store optometrists and improving test accuracy by **20%**
- Designed a **child-friendly pediatric eye testing experience** using **Redux**, increasing engagement by **25%**
- Developed a scalable **staff allocation system** with **Express.js** and **Socket.IO**, reducing appointment dropouts by **13%**
- Collaborated with cross-functional teams to align technical solutions with product requirements
- Optimized frontend performance and state management for smooth real-time interactions
- Contributed to production deployment, monitoring, and iterative improvements

Indian Institute of Technology Roorkee   **May – July 2023**
Research Intern   *Roorkee, India*

- Developed **ML–based risk assessment models** and applied **PHA workflows** to mitigate **50+ safety risks**, reducing incidents by **40%**
- Improved **risk prediction and decision-support models**, enhancing decision-making accuracy by **25%**
- Applied **predictive modeling and data analysis** to optimize safety protocols and minimize operational risks

Projects

BosDB – Browser Based Database with Version Control System [Live Link] [Code]   *Next.js, TypeScript, Node.js, PostgreSQL, MongoDB, Redis, Docker*

- Architected a **browser-based database platform** with a native **Git-like version control system** for **schema and data changes**
- Enabled **commits, branches, merges, cherry-pick, and rollback** directly on **live databases** without environment duplication
- Implemented **database time-travel** using **revision-based recovery** (r-1, r-2, r-N) via **SQL interception** and **reverse-query generation**
- Designed **snapshot-based schema and data versioning** allowing **safe experimentation** and **zero-downtime restore**
- Built **conflict detection and resolution** for concurrent **schema and data changes** across isolated branches
- Developed a **unified multi-database layer** supporting **PostgreSQL, MySQL, MongoDB, and Redis**

LaserX Clothing Store [Live Link] [Code]   *React.js, Next.js, Express.js, MongoDB, Stripe, Nodemailer*

- Built a **production-grade e-commerce platform** with **advanced filtering**, **product variants**, and **media-rich catalogs**
- Integrated **Google OAuth**, **JWT authentication**, and **Stripe payments** with **secure multi-currency checkout**
- Automated **order confirmations**, **shipping alerts**, and **promotional emails** using **Nodemailer**

Education

Zakir Husain College of Engineering and Technology, Aligarh Muslim University   **Aug 2021 - May 2025**
Bachelor of Technology- B.Tech   *Aligarh, India*

Kendriya Vidyalaya JLA Bareilly Cantt   **Bareilly, India**
12th - 94.6% (2020-21)
10th - 94.8% (2018-19)

Technical Skills

Languages: C/C++, Python, Java, HTML/CSS, JavaScript, TypeScript, SQL
Technologies/Frameworks: React.js, Next.js, Node.js, Express.js, NestJS, Spring Boot, Microservices Architecture, REST APIs, WebSockets
Familiar Databases: MongoDB, MySQL, PostgreSQL, MS SQL, Redis, Azure, AWS
Developer Tools: Git, GitHub, Redux, React Router, Axios, Figma, Postman, Kafka, Docker, Kubernetes, CI/CD, Jenkins, Maven, Firebase, GCP, Jira, UI/UX, AJAX

Certifications

- **StepUp Level-1A and Level-1B, Newgen Software** –Certified in Java & SQL [View Certificate]
- **Java SQL Certification – Udemy** [View Certificate]