

# ABHISHEK KUMAR MISHRA

abhishektr2002@gmail.com | +91-9334905084 | linkedin.com/in/abhishekmishra028 | github.com/abhishekmishra28

## SKILLS

- **Languages:** C++, Java, JavaScript, SQL
- **Backend & Database:** Node.js, Supabase, Authentication, Database Design, Caching
- **Web Technologies:** HTML5, React, Next.js 14
- **Developer Tools:** Git, GitHub, VS Code
- **Soft Skills:** Problem-Solving, Teamwork, Communication, Adaptability

## EDUCATION

<b>Lovely Professional University</b> <i>Bachelor of Technology in Computer Science and Engineering — CGPA: 8.2/10</i>	Phagwara, Punjab Aug 2023 – Present
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## WORK EXPERIENCE

<b>Freelance Software Developer — E-Commerce Platform</b>	Apr 2025 – Aug 2025
• Designed and implemented secure backend workflows for product, order, and pricing management using server-side APIs (Next.js) and Supabase.	
• Built dynamic pricing logic that updated product rates automatically, reducing manual updates and errors by ~ 60%.	
• Added authentication, role-based access, and database indexing to improve reliability and response times.	
• Optimized API and database queries, resulting in 30% faster load time and 45% higher user engagement.	

## PROJECTS

<b>AgniDB — Crash-Safe B-Tree Database Engine</b>   <a href="#">GitHub</a>	Sep 2025 – Present
• Built a persistent, disk-backed B-Tree database engine in C++20 with crash-safe recovery and full data integrity across restarts.	
• Designed a fixed-page storage layer with LRU caching and dirty-page tracking, reducing disk I/O by ~ 90%.	
• Implemented robust B-Tree rebalancing (split, merge, sibling-borrow) with correct persistence and validation.	
• Developed a persistent freelist with corruption detection for safe page reuse and improved space utilization.	
• Added tools for tree inspection (.btree) and integrity verification (.validate) to support debugging and correctness checks.	
• <b>Tech:</b> C++20, B-Tree, LRU Cache, File I/O, Persistence, Validation	
<b>Giffy Duck — AI-Powered Notes Assistant</b>   <a href="#">GitHub</a>   <a href="#">Live</a>	Jan 2025 – Mar 2025
• Built an AI-powered notes platform enabling content generation, refinement, and organization for students and creators.	
• Designed normalized database schema and added indexes, improving search latency by 45% and reducing duplicate records.	
• Implemented secure user authentication and role-based access to protect notes and AI-assisted content.	
• Reduced backend complexity by modularizing services and applying clean OOP patterns, simplifying feature additions.	
• Increased average session duration by 50% through performance tuning and reliability improvements across APIs.	
• <b>Tech:</b> Next.js, Node.js, Supabase, REST APIs, Auth, OOP	

## TRAINING

<b>Machine Learning with Data Science — Cipher Schools</b>	May 2025 – Jul 2025
• Applied ML models with emphasis on data pipelines, evaluation metrics, and reproducibility.	
• Gained hands-on experience in supervised/unsupervised learning, feature engineering, and model evaluation techniques.	

## CERTIFICATIONS

<b>Introduction to Machine Learning</b> — <a href="#">NPTEL</a>	Sep 2025
<b>Oracle Cloud Infrastructure 2025 Certified Generative AI Professional</b> — <a href="#">Oracle</a>	Sep 2025
<b>Oracle Cloud Infrastructure 2025 Certified Data Science Professional</b> — <a href="#">Oracle</a>	Aug 2025

## ACHIEVEMENTS

- **Solved 400+ DSA Problems:** Solved 400+ DSA problems across LeetCode and GfG, strengthening algorithmic thinking and coding efficiency.
- Built and delivered 3 production-ready software projects with measurable performance and usability improvements.