Abhishek Agrawal

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EDUCATION

Shri Govindram Seksaria Institute of Technology and Science (SGSITS) **08/2020 – 05/2024**
*B.Tech - **CGPA - 8.05*** *Indore, India*

EXPERIENCE

Deloitte USI **07/2024 – 04/2026**
Software Engineer I *Hyderabad, India*

- Designed automated invoice approval logic for a Vendor Invoice Management platform across **25+ geographies**, reducing approval bottlenecks by enabling **90% automated processing**.
- Engineered a custom **SAP Fiori launchpad tile** in JavaScript for 3 finance workflows, streamlining navigation for **10,000+ users**.

PROJECTS

Word Wala — Real-Time Multiplayer Word Strategy Game | React.js, Supabase, Web Workers

- Built a real-time multiplayer word strategy game with **local and online gameplay**, implementing **Supabase Realtime** synchronization, shareable join codes, and turn-based game state management.
- Developed **8-direction word detection logic** using **Web Workers** and trie-based dictionary scanning, offloading computation from the main thread to maintain responsive UI and smooth gameplay.
- Designed multiplayer backend workflows using **Supabase database, RLS policies, Realtime subscriptions, and RPC functions** for move validation, turn skipping, forfeits, and live match synchronization.

Cartly — Full-Stack E-Commerce Platform | React.js, Node.js, Express.js, AWS Elastic Beanstalk

- Built a full-stack e-commerce platform supporting **product browsing, cart management, checkout, order history, and delivery tracking** with a responsive React frontend and Express backend.
- Developed **5+ RESTful APIs** for products, cart, orders, delivery options, and payment summaries; implemented business logic for **tax calculation, delivery pricing, and order processing**.
- Designed **4 relational data models** using Sequelize ORM (Products, Cart Items, Orders, Delivery Options), supporting scalable database operations across **SQLite and AWS RDS-compatible databases**.
- Deployed the application on **AWS Elastic Beanstalk** with production-ready configuration, API integration via Vite proxy, and modular architecture following scalable full-stack design principles.

TECHNICAL SKILLS

Languages: Java, JavaScript, Python, SQL, HTML5, CSS3
Frontend: React.js, Vite, Redux, Tailwind CSS
Backend & APIs: Node.js, Express.js, REST APIs, Supabase
Databases/ORM: PostgreSQL, SQLite, MongoDB, Sequelize, Mongoose
Developer Tools & Cloud: Git, GitHub, VS Code, AWS Elastic Beanstalk, Vercel, Render
Concepts: Web Workers, Real-Time Systems, Multiplayer Sync, Data Structures (Trie)

ACHIEVEMENTS

- **LeetCode:** Solved **200+** problems across Data Structures and Algorithms
- **IIT Madras Foundation in Data Science:** Completed coursework in Statistics, Python, Machine Learning and Data Analysis.
- **Problem Solving:** Regularly practice **algorithms** and **system design** problems on various coding platforms.