

# Anishk Khandelwal

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## EXPERIENCE

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### Psquare Company

May 2025 – Present

*Full Stack Developer (Intern → Full-time)*

- Built a **scalable, role-based full-stack ERP system** supporting 7+ user roles and 60+ modules across HR, inventory, billing, vendors, contractors, and project workflows, with dynamic RBAC, route-level authorization, and database isolation, handling 10k+ records per module and backed by 300+ APIs and 100+ data models.
- Engineered an **offline-first Electron desktop application** with secure IPC, context isolation, and AES-256 encrypted local databases (PouchDB), ensuring reliable operation in low-connectivity environments and leveraging multi-threaded processing for efficient local data handling.
- Built a **real-time, event-driven architecture** using Socket.IO, MongoDB Change Streams, and RabbitMQ, enabling instant UI updates, eliminating polling, enforcing role-based event filtering, and ensuring reliable message delivery with retry, queueing, and dead-letter mechanisms (reducing unnecessary event traffic by 30%).
- Implemented a **resumable data synchronization and backup system** with incremental lastId tracking, conflict resolution, and queued processing, reducing backup time by 60% and ensuring seamless recovery from network interruptions.
- Optimized performance, scalability, and security across the stack using Vite build optimizations, Redux Toolkit state management, Node.js worker threads, MongoDB aggregation pipelines, and production-grade security practices (JWT, bcrypt, Helmet, CSP, AWS S3), while automating workflows via cron jobs and gmail notifications (reducing manual effort by 40%).

## PROJECTS

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### GEXUS - Esports Platform | [Link](#)

- Built a full-stack esports platform supporting tournaments, teams, marketplace listings, wallets, and game-account trading with end-to-end user workflows.
- Designed scalable backend systems and APIs for tournament management, including bracket generation, match scheduling, leaderboard updates, dispute handling, and activity tracking, along with secure authentication (JWT, OAuth, OTP) and role-based access control.
- Developed payment, wallet, and marketplace flows with transaction tracking, escrow-style handling, ownership transfer history, and payout workflows.

### Syncora - Project Management Platform | [Link](#)

- Developed a full-stack project management platform enabling task management, team collaboration, dashboards, file uploads, and workflow tracking across projects and members.
- Implemented secure authentication and access control with JWT-based sessions, token rotation, protected routes, email verification, and role-based project permissions.
- Designed scalable MongoDB data models and indexing strategies and engineered real-time collaboration features using Socket.IO (chat, rooms, unread tracking, message lifecycle), improving data consistency and user experience.

## EDUCATION

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### Chandigarh University, Mohali

Sept 2021 – May 2025

*B.Tech in Computer Science and Engineering*

CGPA: 8.21/10

## SKILLS

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**Frontend** : React, TypeScript, JavaScript, Vite, React Router, Tailwind, Redux Toolkit, RTK Query CSS

**Backend** : Node.js, Express.js, REST API Design, WebSockets (Socket.IO)

**Databases** : MongoDB, Mongoose, PouchDB

**Tools** : Git, Multer, Electron, Docker

**Integrations** : Razorpay, Cloudinary