

# Bilguutei Enkhbold

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## EDUCATION

**B.Sc. (Honours) Computer Science** · University of Delhi — SSCBS

Nov 2022 – Jun 2026

Final year, graduating June 2026

**Relevant Coursework:** Data Structures & Algorithms, Databases, Software Engineering, Cloud Computing, Artificial Intelligence

## TECHNICAL SKILLS

**Languages:** JavaScript/TypeScript, Python, SQL, HTML/CSS

**Technologies & Tools:** Node.js, React.js, Next.js, REST APIs, PostgreSQL, Postman, Prisma, Drizzle ORM, Sentry, Jest, Redis, Cloudinary, Turborepo/Monorepo, GSAP

**Cloud:** AWS, DigitalOcean, Git, Github Actions, CI/CD

## EXPERIENCE

**Junior Front-End Developer** · Tulgovski Media

Nov 2021 – Jun 2022

Next.js · TypeScript · Material UI · Express.js

- Delivered **authentication system** and 12+ UI components from scratch in **Next.js** and **TypeScript**, enabling on-time launch of a crowdfunding platform for the Mongolian market
- Integrated **React frontend** with an **Express.js REST API**, implementing async data-fetching and state management across core user flows
- Shipped features independently within **4 weeks** of joining, self-directing learning to meet sprint deliverables

## PROJECTS

**Antebook** — Print-on-Demand Photobook Platform · [antebook.me](http://antebook.me)

2026 – Present

Next.js · Fabric.js · BullMQ · Redis · PostgreSQL · Puppeteer · Prisma · DigitalOcean · Turborepo

- Architected a **3-app Turborepo monorepo** (storefront, admin, PDF server) with a custom **Fabric.js canvas editor** for template-based photobook customisation
- Decoupled PDF generation into an async **BullMQ/Redis microservice** producing **300 DPI CMYK** exports at 210×297mm — eliminating request timeouts with retry-safe, idempotent job execution
- Implemented **QPay and Bonum webhook-driven order state machine** covering the full payment lifecycle, with an admin dashboard for order tracking and print job management

**Fashion E-Commerce System** · [orig.mn](http://orig.mn)

Nov 2023 – 2026

Next.js · React · TypeScript · Drizzle ORM · PostgreSQL · Redis · SQL · Better Auth · Shadcn UI · Vercel

- Architected a Turborepo monorepo with **two Next.js 16 apps** (customer storefront + admin dashboard) and shared db/ui/utils packages, using **Vercel remote caching** to keep builds fast across both apps
- Built a **passwordless authentication system** with email OTP and Twilio SMS phone verification (Better Auth), plus optional Google OAuth and session management across two separately-deployed apps
- Designed **per-variant-per-size inventory tracking** with transactional stock mutations, ensuring atomic reservation and release across checkout, cancellation, and admin edits
- Built an admin CMS for products, orders, hero slides, and promotional banners — including a **TipTap rich-text editor** and drag-and-drop ordering (dnd-kit) for merchandising
- Resolved N+1 query patterns and Neon cold start latency using Next.js cache and Redis, improving perceived response speed by **70%**
- Implemented Redis-backed rate limiting across API routes, reducing redundant request load by **20%**

**Tech Products Marketplace** · [alimhan.live](http://alimhan.live)

Mar 2025 – Jan 2026

Medusa.js · React · TypeScript · Node.js · PostgreSQL · Redis · Meilisearch · Docker · DigitalOcean

- Built a fully custom **Next.js storefront** on top of **Medusa.js** for a single-vendor, multi-brand tech marketplace — handling the complexity of syncing Medusa's API state with a custom frontend architecture end-to-end
- Designed a **tiered caching strategy** with Next.js cache directives (minute-level TTL for products, hour-level for collections, tag-based revalidation) and a DB pre-warm endpoint to mask serverless cold-start latency during checkout
- Built a **race-condition-free cart system** with optimistic updates, 500ms debounced backend sync, request deduplication, and full error-rollback on every mutation — eliminating UI flicker and double-writes during rapid add-to-cart interactions
- Shipped a **multi-step checkout** (contact → delivery → address → payment) as a useReducer state machine with debounced validation, Mongolian address decomposition, and triple duplicate-submit prevention (ref lock → state lock → debounce)

## CERTIFICATIONS & RECOGNITION

**Ethical Hacking** · IIT Delhi

Feb 2024

Learnt to penetration testing, vulnerability assessment, network security

**VS Code Extension Workshop** · Google Developer Groups DevFest Noida

Dec 2025

Presented a working VS Code extension built during the workshop session at GDG DevFest Noida 2025