

Himanshu Agarwal

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SUMMARY

Full-stack software engineer with 3+ years shipping and operating web, mobile, and backend systems. Own four AfterBoards and AfterGrad apps used by tens of thousands of learners and processing 100,000+ submitted exam attempts. Strongest in TypeScript, system design, payments, real-time workflows, and reliability.

EXPERIENCE

Founding Engineer (Full-stack / Sole Engineer) - AfterBoards & AfterGrad, Bengaluru

Mar 2023 - Present (contract through Feb 2024; full-time since Mar 2024)

- Own four production web and mobile apps for two exam-prep products used by tens of thousands; built the MVP and now run the systems end to end.
- Built a resumable exam engine for 100,000+ submitted and analyzed attempts and ~500 simultaneous users at peak, with server-side scoring, persistent state, wall-clock timers, analytics, and disconnect recovery.
- Integrated Razorpay and Cashfree checkout plus payout reconciliation; restored checkout in ~30 minutes during a Razorpay outage by activating the pre-integrated Cashfree path.
- Built a four-provider LLM pipeline with fallback, schema validation, and repair; a full-day, 30-person process first fell to two reviewers in under an hour and now requires no routine manual handling.
- Built real-time multiplayer quiz rounds on Ably with scoped client tokens, server-authoritative scoring, atomic first-answer-wins guards, and coordinator election with liveness takeover; correct answers are never sent to clients during a live question.
- Consolidated two products into a 17-package Turborepo with shared authentication, UI, and server logic, so fixes and product rules ship across both brands without parallel implementations.

React Native Developer, Frontend Lead - an2 cabs, Bengaluru

Jun 2023 - Feb 2024

- Led a team of three across frontend and backend delivery for React Native customer and driver apps, including task breakdown and frontend architecture.
- Built continuous GPS ingestion, resilient background-location handling, and real-time driver dispatch flows against an Azure backend.

Product Engineering Intern - OSlash, Bengaluru

Feb 2023 - Mar 2023

- Built a link and snippet-management prototype end to end with Cloudflare Workers, GraphQL, PlanetScale, and Astro while working directly with the CTO.

SELECTED PRODUCTION SYSTEMS

Naveen Logistics - Transport operations | naveenlogistics.com

- Runs billing, receivables, GST/TDS reporting, customer statements, and 100+ LRs/month for a real transport business. Eliminated Postgres AB-BA deadlocks across concurrent billing and payment paths through global row-lock ordering.

Pharmulo - Multi-tenant pharma wholesale platform | pharmulo.com

- Built a read-only on-prem ERP sync agent with incremental watermarks, retries, reconciliation, and tombstones. Enforced tenant-scoped data access through a query layer and lint gate; shipped real-time order coordination and an offline-capable retailer PWA.

SKILLS

- **Languages:** TypeScript, JavaScript, SQL, Rust (Tauri)
- **Product engineering:** React, Next.js, React Native, Node.js, REST, GraphQL, PWAs, CI/CD
- **Data and systems:** PostgreSQL, MongoDB, Redis, SQL Server, Drizzle, Cloudflare Workers/R2
- **Architecture and reliability:** API/system design, payments, multi-tenancy, concurrency, real-time workflows, LLM integration

EDUCATION

B.E., Information Science & Engineering - Cambridge Institute of Technology | 2023 | CGPA 8.86