

# VINAYAK KUMAR

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## EDUCATION

**Diploma in Computer Engineering**, Ambedkar Institute of Technology 2018 - 2021  
**B.Tech in Computer Science & Engineering**, Guru Gobind Singh Indraprastha University (GGSIPU) 2024 - 2027  
*Resumed studies in 2024 while continuing full-time software engineering roles (Sep 2021 – Nov 2024).*

## EXPERIENCE

**Senior Full-Stack Engineer** Feb 2024 - Nov 2024  
RemoteHire New Delhi, India - Remote

- Re-architected immigration **AI assistant** with modular country/domain adapters for rapid feature launch.
- Launched one-click guest sign-up sessions with seamless history/credit merge; cutting onboarding time ~40%; automatic weekly renewing free plan + **Stripe Pro** subscription (500 credits + top-ups).
- Built multi-mode chat (**Search vs Advisor**) and agentic **RAG** pipeline (**LangChain**, **Flowise**) to retrieve programs, validate documents, compute weighted eligibility scores & recommendations.
- Added adaptive questioning + document verification workflow reducing redundant prompts.
- Added cited web search + dual stream (persist to **Prisma**/SQL + live UI) reducing perceived latency.
- Unified complex app state via **Context API** + **useReducer** (sessions, credits, modes, convo) for easier maintenance.
- Shipped **PostHog** + session/video analytics capturing loads, clicks, and conversation events for cohort analysis.
- Integrated **Clerk**, **Stripe**, **Next.js** (App Router), **TypeScript**, **shadcn/ui**, **Tailwind**; deployed on **Vercel** + **PWA**.

**Software Developer I (Former Intern)** Nov 2021 - Feb 2024  
Wonderhood New Delhi, India - Remote

- Promoted from Intern; led web/mobile initiatives (**React.js**, **Next.js**, **React Native**) for **wonderLearn**.
- Rebuilt e-commerce/content site (**Shopify GraphQL** + SDK) with dynamic toys, blogs, articles, courses & cart.
- Migrated platform to **Next.js** using hybrid **ISR/SSG/CSR**; Lighthouse improved from 20–40% to 90%+.
- Led creation & migration from **Ionic** to **React Native**; redesigned child-centric UI improving performance & UX.
- Converted MyLearning into teacher dashboard (courses/assessment/reporting) using **React**, **Vite**, **TypeScript**.
- Shipped full **Mixpanel** instrumentation (web/app/teacher dashboard) tracking clicks, views, progress, attention.

**MERN Stack Intern (Acting Tech Lead)** Sep 2021 - Nov 2021  
Possibillion Technologies New Delhi, India - Remote

Led 4 interns, shipped **3 MVPs**—tourism site, “Firework” slideshow (**ffmpeg**), social app; built landing, admin + REST backend for each; (**Express**, **MongoDB**) and image→video (**FFmpeg**, **S3**) + chat (**Socket.io**).

## PROJECTS

- **Autism Detection App**: Privacy-first browser autism screening (**Next.js/React/TypeScript**, **TensorFlow.js** + **BlazeFace**) doing real-time eye tracking + metric analysis (accuracy, saccade/fixation) to output heuristic risk bands (accuracy above 80% = low, below 55% = high); all processing local with optional Clerk user accounts.
- **StoreFront — Billing & Inventory**: An app for **items**, **orders**, **analytics**; drag-and-drop organize & multi-select mass move; **Bluetooth** thermal printing (Web Bluetooth, ESC/POS-like) with pairing/persistence; secure cookie sessions with middleware-enforced **CSRF** & rate limiting; server-side metrics & interactive charts. Built with **Next.js**, **React 18**, **TypeScript**, **Prisma**+**PostgreSQL**, **Tailwind**, **shadcn/ui**.

## TECHNICAL SKILLS

**Languages:** TypeScript, JavaScript, HTML, CSS, SASS, Java (intermediate), C++ (intermediate)  
**Frontend:** React, Next.js (ISR/SSG/SSR/CSR), React Native, shadcn/ui, Tailwind CSS  
**Backend / APIs:** Node.js, Express.js, LangChain, Flowise, REST, Prisma, MongoDB, Socket.io, ffmpeg  
**State / Data:** Redux (Toolkit, Saga, Persist), Context API, Observer Pattern, Chart.js, Mixpanel  
**Cloud / DevOps:** Vercel, AWS (S3, Amplify), Firebase, Stripe, Clerk, JWT, Webpack, Git/GitHub

## LEADERSHIP EXPERIENCE

**Esports Leader & Tech Lead (BOD, Treasurer)** 2019 - 2022  
Relics Esports (Brawl Stars) Top 15 Global Ranking

- Scaled one of India’s top Brawl Stars esports orgs to 50,000+ members across 50+ Discord servers.
- Led flagship club *Relics Valiant*: **#1 India** (24+ months), peak **#15 global**; ran monthly Game.tv-sponsored tournaments (INR 100K prize pool) fueling retention & talent pipeline.
- Engineered flagship bot **Relics Audit** + 3 companion bots (**Node.js**, **Discord.js**, **MongoDB**, **PM2**) automating tournaments, verification, ladder tracking, moderation & security—cut manual admin work >90%.