

# Ajay Kumar

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## About

Full Stack MERN Developer with 2.6+ years of experience building scalable, high-performance web applications using React, Next.js, TypeScript, Node.js, and Express. Strong focus on clean architecture, UI quality, performance optimization, and secure backend design and authentication, with hands-on experience in asynchronous notifications and email workflows and AWS-based production deployments.

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## Technical Skills

**Frontend:** React.js, Next.js, HTML5, CSS3/SCSS, Tailwind CSS, Material UI, Bootstrap, Redux Toolkit, Context API, useReducer, Client-side state management, React Query, Webpack, Responsive UI, Cross-browser compatibility

**Backend:** Node.js, Express.js, REST APIs, Express middleware, Authentication (JWT), Swagger/OpenAPI, WebSockets, Socket.io, Input validation (Joi, Yup)

**Databases:** MongoDB (schema design, indexing, aggregation), PostgreSQL, MySQL, Sequelize, Redis, Supabase (PostgreSQL)

**DevOps:** Git, GitHub, Docker, Nginx, Vercel, AWS EC2, GitHub Actions, CI/CD, Blue-Green deployment, CORS configuration, Environment-based configuration (env variables)

**Tools:** ESLint, Prettier, Jest, Amazon CloudWatch

**Integrations:** WhatsApp Business API, Meta Graph API, Instagram/TikTok/YouTube/Twitter APIs, GovMap (geospatial), Google Sheets API

**Other:** Figma, Performance Optimization, Jira, Linear, Agile/Scrum, Postman, Code reviews

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## Experience

### SDE — Repozitory Technologies Pvt. Ltd, Hisar | Aug 2023 – Present

- Built and maintained 5+ production MERN applications (B2B SaaS, HRMS, influencer platform, billing/accounting) with e2e testing and best coding practices
- Modernized a legacy AngularJS + Node.js product into React + TypeScript component architecture to improve maintainability and delivery speed.
- Improved Core Web Vitals/page loads by ~40% using code splitting, lazy loading, and Webpack optimization.
- Reduced critical API latency up to 10x via MongoDB/SQL query optimization (indexes, aggregation) and pagination patterns.
- Implemented secure authentication and authorization using JWT sessions, Express middleware, Joi/Yup validation, and CORS hardening.
- Delivered real-time chat and notifications using **WebSockets and Socket.io**, and implemented **event-driven notification and email workflows using Node.js EventEmitter**.
- Integrated **GovMap** and **WhatsApp Business API**, along with external third-party service integrations, to enable automated notifications, communication workflows, and enhanced user profiles.

### Python Development Intern — Internshala, Remote | May 2023 – Jul 2023.

- Developed **REST APIs** and backend logic to strengthen server-side skills.
- Gained hands-on experience in **debugging and API integration** tasks.

### Team Lead — College Hackathon (Android App) Sonipat | Jan 2023 – Mar 2023

- Led a 3-member team to build a **College Management App** using **Java, Android Studio, and Firebase**
  - Implemented **role-based dashboards** and **real-time data sync** features
  - **Won 1st Place** in the Software Development category.
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## PERSONAL PROJECTS

### ResumeForge (ATS Tailoring Tool) | JavaScript, Node.js, React, AWS Bedrock (Claude), Gemini API, CloudWatch

- Built a CLI + React UI for JD parsing, keyword extraction, deterministic ATS scoring, and tailored resume generation from structured JSON.
- Integrated AWS Bedrock (Claude) and Gemini API; added CloudWatch-based usage/cost tracking and skill-claim validation guardrails.

### Personal Portfolio Website | Next.js, TypeScript, Tailwind CSS, Framer Motion, GSAP, AWS EC2, Nginx, Docker, GitHub Actions

- Built a Next.js portfolio with SSR/SEO, responsive UI, and animations (Framer Motion, GSAP) driven by structured JSON content.

- Deployed on AWS EC2 with Nginx, Docker, and GitHub Actions CI/CD (blue-green); integrated Google Sheets form storage.

## AccentLoop (Freelance, Japan) | React, TypeScript, Express.js, MySQL, Jest

- Built a teacher/student role-based platform with lesson workflows and video submissions using **React**, **TypeScript**, **Express.js**, and **MySQL**.
- Added **Joi/Yup** validation and Jest unit/integration tests (TDD); integrated a pronunciation evaluation API and handled production support.

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## PROFESSIONAL PROJECTS (SELECTED)

### GetStatus - Urban Renewal & Real Estate Management Platform | React, TypeScript, Tailwind CSS, Node.js, Express, MongoDB, Swagger, Socket.io, CloudWatch

- Refactored complex legacy flows into reusable React + TypeScript components; optimized Core Web Vitals and dashboard performance.
- Implemented **Next.js Pages Router with SSR and server-side data fetching** to improve initial load performance, SEO, and secure data access.
- Built REST APIs using Express.js with Swagger documentation and middleware-based architecture.
- Delivered real-time status updates and notifications using WebSockets and Socket.io.
- Integrated GovMap and WhatsApp Business API; supported production using CloudWatch logs, metrics, and alarms.

### HRMS Internal System | React, Tailwind CSS, Material UI, Node.js, Express, MongoDB, MySQL, API Key Auth

- Built a multi-tenant HRMS with RBAC/policy permissions and core modules (onboarding, attendance, leave, loans, dashboards).
- Implemented payroll processing (salary generation, statutory deductions, TDS) with configurable rules and strict Joi/Yup validation.
- Built biometric attendance ingestion (collector -> SQL -> validation -> secure REST push) with edge-case handling and production support.

### Bibico - Influencer Marketing Platform (Japanese i18n) | React, Node.js, Express, Sequelize, MySQL, Socket.io, Highcharts, i18n/l10n

- Built a 3-app system (2 React apps + Express API) with Japanese i18n/l10n for admin/publisher workflows and influencer discovery.
- Integrated Meta Graph/Instagram/TikTok/Twitter/X/YouTube APIs and built Highcharts analytics dashboards for engagement insights.
- Optimized discovery/search with indexing and Sequelize migrations; added real-time chat/notifications via Socket.io.

### WaaHBooks - Cloud GST Billing, Inventory & Accounting | React, Node.js, Express, PostgreSQL, JWT, Policy-Based Access Control

- Built end-to-end **billing, inventory, accounting, and reporting workflows** with **multi-firm support** using React and Express.
- Designed **PostgreSQL data models**, migrations, indexing strategies, and query optimizations for high-volume financial data.
- Implemented **JWT authentication** with **IAM-style policy-based permissions** (module-level read/write/delete control).
- Developed secure backend APIs with **Express middleware**, validation using **Joi/Yup**, and strict authorization checks.
- Implemented **GST and tax calculation workflows**, including configurable rules and statutory compliance logic.
- Integrated external APIs and handled edge cases with reliable error handling and production support.

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## Education

- **Diploma in Computer Engineering** – Computer Science — Chhotu Ram Polytechnic, Rohtak (Aug 2021 - July 2023) **84%**
- **Non-Medical –(High School)** — Indus Public School, Jind (June 2017- July 2019) **78.8%**