

Rahul Bharati

Senior Software Engineer

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PROFILE

Full-stack **Senior Software Engineer** with **7+ years** building real-time, multi-tenant, and secure systems in **React, TypeScript, and Node.js** across **fintech, insurance, gaming, and edtech**. I own features from API design and data modeling through to fast, accessible UIs, and I lead and mentor engineers in agile teams. I use **AI developer tools like GitHub Copilot, Claude Code, Gemini, and Codex** to move faster, and on the side I have designed and shipped two live **AI products (FayeBot and Haru)** while learning the fundamentals of **AI risk, security, and governance**.

TECHNICAL SKILLS

Languages	TypeScript, JavaScript (ES6+), Python, SQL, HTML5, CSS3, SCSS
Front-End	React.js, Next.js, React Native, Expo, Context API, TanStack Query, SWR, Tailwind CSS, Material-UI, shadcn/ui, Bootstrap, Canvas API
Back-End	Node.js, Express.js, AdonisJS, REST APIs, WebSockets, Web Pub/Sub, event-driven and microservice architectures
Databases	PostgreSQL, MySQL, MongoDB, Firebase / Firestore, Supabase, Neon, Amazon Aurora, Google BigQuery, pgvector
Cloud & DevOps	AWS (Cognito, Bedrock, Lambda, Aurora, Polly, S3), Google Cloud (Functions, BigQuery), Vercel, DigitalOcean, Cloudflare, Docker, Kubernetes, CI/CD, Git
Payments & Auth	Razorpay, Stripe, JWT, OAuth 2.0, RBAC, AWS Cognito, session management
AI & LLM	LLM app development, RAG, embeddings, pgvector, Google Gemini, Amazon Bedrock (Claude), local LLMs via Ollama, prompt engineering; GitHub Copilot, Claude Code, Codex
Practices	Agile / Scrum, Test-Driven Development, system design, code review, technical interviewing, mentoring

WORK EXPERIENCE

EPAM Systems Jul 2023 - Present
Senior Software Engineer

- Build and own high-performance **React and TypeScript** interfaces for enterprise clients, and set the component patterns that improved UI performance and made the codebase easier for the team to extend.
- Ship real-time features from front to back, streaming live data over **Web Pub/Sub** and rendering it on the **Canvas API**, and tuned fetching and caching with **TanStack Query** so the screens stay fast under heavy update volume.
- Designed the application's **JWT authentication** and session management, which tightened access control across the single-page app.
- Mentor engineers as a **Resource Manager** through 1:1s and performance reviews, and run technical interviews as a **Certified Technical Interviewer** to help hold the hiring bar.
- Lean on **AI developer tools like GitHub Copilot and Claude Code** every day to speed up code generation and architecture review, while keeping the engineering decisions my own.

Cloudely India Mar 2023 - May 2023
Senior Web Developer

- Built the backend for a **no-code, drag and drop API builder** in **Node.js and Express** that let non-developers stand up working APIs in minutes.
- Designed a **multi-tenant MongoDB** model that kept each client's data isolated and fast as tenants grew, and connected the React front end with custom JWT authentication.

Pandaslore Apps Aug 2022 - Jul 2023
Founder & Lead Full-Stack Engineer

- Relaunched my earlier studio as an incorporated company and grew it to a **10-person team** building custom B2B web and mobile products.
- Led the ground-up rebuild of a legacy interactive game show, owning the architecture, delivery, and stakeholder conversations from start to finish.
- Built the backend on **Node.js and MongoDB**, later moving to **Supabase** for faster iteration, and shipped a cross-platform **React Native** app to Apple TestFlight for beta testing.
- Handled hiring and set the technical direction, and learned firsthand how much work it takes to keep a small team aligned and shipping on deadline.

Rapidera Technologies

Feb 2022 - Aug 2022

Full-Stack Developer (Contract)

- Drove backend development of digital insurance and policy-management systems for **HDFC Life**, one of India's largest insurers, on **Node.js** and **MongoDB** REST services.
- Built rotating, single-use **JWT session tokens** to meet financial-sector security requirements, and worked with the **InfoSec** team to audit and close vulnerabilities.
- Modernized a legacy React class-component codebase to hooks and unified the interface with Material-UI.

Paper Boat Apps

Oct 2019 - Feb 2022

Full-Stack Developer

- Built the pipeline that moved **gigabytes** of product analytics from MySQL and PostgreSQL into **Google BigQuery** with custom Node.js scripts.
- Turned that data into **LTV, cohort, and customer-flow dashboards** the marketing team used to guide ad spend.
- Shipped the **Kiddopia** web app in Node.js and Vanilla JS with **Stripe** subscriptions for a global audience, reached a **90+ Lighthouse** score with no third-party libraries, and deployed serverless workloads on Google Cloud Functions.

Appic Mobile

Jul 2019 - Oct 2019

Full-Stack Developer (Laravel / PHP)

- Led the backend for **Mintoak's** merchant settlement dashboard and built the automated reconciliation engine that generated bank-ready **INETT** files.
- Built secure **PHP and Laravel** REST APIs with Passport, and fixed critical performance bottlenecks that had been crashing the admin dashboard under load.

Webxstudio Digital

Apr 2018 - Jul 2019

Freelance Full-Stack Developer

- Founded a small web-development studio for local educational institutions, and built an automated **exam-management platform** in PHP and MySQL plus an internal event-management app that cut manual coordination work.

PRODUCTS & SIDE PROJECTS

FayeBot, AI-native lead capture for founders

Designed and built it end to end. One line of code embeds a conversational agent that talks to visitors, captures qualified leads, and escalates to a human when it matters, with every AI decision logged and auditable.

Next.js · AWS Cognito · Neon Postgres + pgvector (RAG) · Google Gemini with Amazon Bedrock fallback

Haru, AI executive communication coach

Rewrites raw professional writing and speech into polished, executive-grade language in real time, with tone scoring and spaced-repetition practice built from a user's recurring mistakes.

Next.js · Amazon Bedrock (Claude) · Cognito · Aurora Postgres · Amazon Polly · Razorpay

Zero-Trust AI, open source and guest masterclass

A reference zero-trust architecture for LLM-powered database agents, with bidirectional input and output guards, policy as code, OWASP LLM Top 10 alignment, and fail-closed defaults. Presented as a guest masterclass, "Engineering Zero-Trust AI Agents," at upGrad.

EDUCATION

O.P. Jindal University, Executive MBA (in progress)

Apr 2026 - Present

Mumbai University, B.Sc. in Computer Science

Jun 2016 - Apr 2019

CERTIFICATIONS

GitHub Copilot Certification (GitHub) · **Certified Technical Interviewer** (EPAM Systems)