

ROHAN MAHAJAN

Full Stack Engineer | AI-Native

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SUMMARY

Full Stack Engineer with 11.8 years of end-to-end ownership — React / TypeScript product surfaces, Java Spring Boot microservices, Node.js APIs, and Airflow data pipelines. Hands-on with production AI systems: RAG pipelines (LangChain, pgvector), LLM orchestration, and Anthropic / Claude API integrations shipped to internal teams. Strong component architecture and design systems expertise on the frontend; equally fluent designing distributed services, data layers, and ETL pipelines on the backend. Consistent track record of technical leadership: mentoring engineers to full-time offers, leading cross-org teams, and driving platform adoption from POC to production.

TECHNICAL SKILLS

Frontend:	React, Next.js, TypeScript, Component Architecture, Design Systems, Core Web Vitals, Accessibility (WCAG)
Languages:	TypeScript, JavaScript ES6+, Python, Java, HTML5, CSS3 / SASS
Backend:	Node.js / Express, Java Spring Boot, REST APIs, Microservices, gRPC, Circuit Breaker, Service Discovery, API Gateway
Data & Cloud:	PostgreSQL, BigQuery, MySQL, Redis, Kafka, Apache Airflow, AWS (S3, EC2, ELB), GCP, Docker, CI/CD
AI / LLM:	RAG pipelines, LangChain, pgvector, LLM Orchestration, Prompt Engineering, OpenAI API, Anthropic API, Semantic Search

EXPERIENCE

Walmart Global Tech India

Senior Software Engineer

Feb 2023 – Jun 2026

Bengaluru, India

→ **DOOH — Digital Out-of-Home Ad Network** | React, TypeScript, Java Spring Boot, Node.js/Express, PostgreSQL, BigQuery, Apache Airflow, Python

- Expanded Walmart's in-store ad network from TV Walls to **7 channels** (Self-Checkout, In-Aisle Screens, Auto Parts, Vision Center, Electronics) — supporting **\$228K+ campaign budgets** and **1.3M+ ad plays/month**.
- Owned full-stack campaign dashboard: **React / TypeScript** frontend, **Java Spring Boot + Node.js / Express** APIs, **PostgreSQL and BigQuery** data layer — primary reporting surface for multi-channel campaign performance.
- Developed **Java Spring Boot microservices** for ad scheduling and validation — decoupled ingestion, validation, and reporting into independently deployable services, reducing p99 validation latency by **40%**.
- Designed **Apache Airflow** ETL pipelines with Python to normalize data from Salesforce CRM and 7+ channel sources, replacing manual reconciliation with fully automated ingestion.

→ **Falcon — Content Moderation Dashboard** | React, TypeScript, Java Spring Boot, Splunk

- Built dashboard for RevOps auditors to review ad creatives against a **42-point checklist** (profanity, nudity, blurred images, terrorism content); auditors upload CSV batches and pass / reject / escalate each item.
- Integrated **Splunk** metrics capturing rejection counts, escalation rates, and auditor throughput.

→ **SSP — Supply Side Platform** | React, TypeScript, component architecture

- Built an interactive **Taxonomy tree** (file-explorer UX) covering Product, Page, and Contextual taxonomies — expandable nodes, selection state, real-time search.
- Designed and shipped a reusable **FilterBar component system** (date range, single-select, multi-select, autocomplete chips) — eliminated redundant per-page filter implementations across the platform, reducing duplication and accelerating feature velocity.

→ **SSQAF — Scalable System Quality Audit Framework** | Next.js, PostgreSQL, Node.js, automated email

- Mentored an **IIT Ropar intern** end-to-end — system design, AI-enabled development, full delivery — to ship a cross-team audit dashboard from scratch; intern received a **full-time offer** based on project outcome and direct appreciation from RevOps leadership.
- Dashboard onboarded 3 products as POC (Falcon/DSP, Trafficking, Social); cross-functional team leads run sample audits and receive automated **percentage-score audit reports** exportable as PDF or auto-emailed to leadership.

→ **RAG / AI Tooling** | LangChain, pgvector, OpenAI API, Anthropic API, LLM Orchestration

- Architected production **RAG pipeline** — embedded campaign metadata and 12-month history into **pgvector**, retrieval via **LangChain**, natural-language analytics interface — reduced analyst report turnaround by **70%** and eliminated manual SQL dependency for business teams.
- Built **AI agent tooling** using prompt engineering and LLM orchestration (Anthropic / Claude API) to automate code-generation and reporting workflows across the team.

Nagarro (Client — Walmart)

Associate Staff Engineer · Contractor Engagement

Jul 2021 – Feb 2023

Gurugram, India

→ **Walmart Spark Driver Platform** | React, Next.js, Java Spring Boot, Node.js/Express, AWS S3, ELB

- Scaled Walmart's last-mile gig driver platform from **6,000 to 150,000+ active drivers**, directly enabling Walmart's US delivery expansion.
- Built **Java Spring Boot REST APIs** and microservices with circuit-breaker and service-discovery patterns to sustain **25× driver volume growth** without degradation.
- Engineered shared **React / Next.js** component library with **100% unit test coverage**; built **Node.js / Express** aggregation layer and provisioned **AWS S3 + ELB** for scalable, highly available deployment.
- Led a cross-org team of 4 (1 Nagarro junior + 2 Walmart FTEs at L2/L3) — as a contractor managing client-side engineers, a rare trust signal; platform delivery and team impact earned a **direct FTE conversion offer from Walmart Global Tech India**.

Gartner

Software Engineer

Nov 2018 – Jul 2021

Gurgaon, India

- Led AEM modernization initiative migrating legacy server-rendered pages to **React SPA components** for a global B2B enterprise audience.
- Resolved **Core Web Vitals** bottlenecks via Lighthouse performance audits on a high-traffic global site.

Publicis Sapient

Experience Technologist

Jun 2016 – Nov 2018

Gurgaon, India

- Built web platforms for Fortune 500 clients — **Roche, Kia Motors, Johnson Outdoors** — using AEM, HTML5/CSS3/JavaScript/Node.js with a mobile-first approach.
- Resolved WCAG 2.0 accessibility violations across pharmaceutical and automotive client sites, improving compliance scores and reducing support ticket volume.

All India Radio

Frontend Lead

Apr 2015 – May 2016

New Delhi, India

- Led frontend engineering for India's national public broadcaster; established the organization's first frontend standards documentation across HTML, CSS, JavaScript, and PHP.

Cognizant Technology Solutions

Programmer Analyst Trainee

Sep 2014 – Mar 2015

- Completed enterprise software engineering training; built and presented an AngularJS proof-of-concept as an internal knowledge-sharing initiative.

EDUCATION

Guru Gobind Singh Indraprastha University

2010 – 2014

B.Tech, Computer Science and Engineering