

Rajesh Dhiman

Full-Stack Developer | AI Automation Specialist

Full-stack engineer with 12+ years of experience building scalable web apps, AI automation workflows, and open-source developer tools. Creator of two AI orchestration frameworks and several proof-of-concept tools. Proven success in startups and enterprise environments, with a focus on clean architecture, developer velocity, and cross-functional collaboration.

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EXPERIENCE

Freelance / Open Source Developer, Remote — AI Automation & Full-Stack Specialist

Mar 2025 - PRESENT

- Built and published [ai-agent-flow](#), an open-source Node.js framework for LLM workflow orchestration.
- Developed advanced automation pipelines in n8n and Zapier integrating OpenAI, dbt, and Snowflake.
- Published [MCP News Server](#) using Zod + OpenAPI to demonstrate contract-based API design.

Tech Stack: Node.js, TypeScript, OpenAI, LangChain, n8n, React, MongoDB

[Alloy Automation Inc](#), Remote — Senior Software Engineer

May 2021 - Feb 2025

- Led the development of **Alloy Embedded**, enabling vendors to embed automation services, adopted by **Amazon Buy with Prime, Walmart, Best Buy, Burberry, Typeform**, and more.
- Led the architecture and development of enterprise automation tools, increasing adoption by 30%.
- Overhauled template creation and installation flows, **reducing onboarding time by 40%** and improving user engagement.
- Collaborated across Product, Design, and QA teams to drive **technical excellence** and alignment with business goals.

Tech Stack: TypeScript, React.js, Express.js, Node.js, MobX, AWS, CI/CD

[Concinnity Media Technologies](#), Remote — Full Stack Developer

Dec 2019 - May 2021

- Designed and built responsive applications for [8World News](#) (Mediacorp, Singapore) using Nuxt.js, Vue.js, and Vuex.
- Improved mobile ad engagement by 60% by implementing optimized

SKILLS

Languages: JavaScript (ES6+), TypeScript, HTML, CSS, C#

Frontend: React.js, Vue.js, Next.js, Nuxt.js, AntD, Tailwind CSS, Material UI

Backend: Node.js, Express.js, NestJS, TypeScript

Automation Tools: n8n, Zapier, LangChain, OpenAI

Databases: MongoDB, DynamoDB, PostgreSQL, MySQL, MSSQL, Supabase

DevOps & Cloud: AWS (S3, Lambda, SQS, EC2), Azure, Docker, Kubernetes, CI/CD

Tools & Frameworks: MobX, Redux, GraphQL, Algolia, Brightcove, WebSockets, Stripe

Testing & Automation: Jest, Cypress, Playwright, Puppeteer

Project Management: Agile, Scrum, Jira, GitHub Actions

EDUCATION

UI/UX and ad placement strategies.

- Resolved memory leaks in custom Vue components, reducing memory usage by 70% (from 150MB to 45MB).
- Developed a feature to embed multi-page microsites dynamically, enhancing content management flexibility.

Tech Stack: Nuxt.js, Vue.js, Express.js, Node.js, Vuex, Algolia Search, Brightcove

BYISYSTEMS, Singapore/Remote — Tech Lead

Nov 2018 - Dec 2019

- Architected and led development for an online marketplace serving high-end customers in Singapore.
- Led a remote team of 3 developers, 2 QAs, and 2 DevOps engineers across multiple time zones.
- Conducted on-site customer research to improve user workflows and optimize marketplace features.

Tech Stack: React, Next.js, MongoDB, PWA, MobX, Node.js, Express.js

Agency Team, Remote — Full Stack Developer

July 2017 - June 2018

- Developed a real estate data normalization service integrating multiple RETS servers, optimizing property data collection.
- Created a batch processing system, scaling operations to 30+ servers for real-time data updates.

Tech Stack: Node.js, Azure, AngularJS, Azure Cosmos DB, Express.js

Royal City Trucking, Remote — Full Stack Developer

Nov 2015 - April 2017

- Built RoyalOne CMS, an internal CRM for trucking operations, reducing manual workload by 20%.
- Automated audits and data entry workflows, cutting compliance costs by 2X.

Tech Stack: Node.js, MongoDB, Express.js, AngularJS

smartData Enterprises Inc., Mohali (India) — Software Engineer

Jan 2012 - Dec 2014

- Modernized **healthcare software** for American Care; migrated a **legacy ASP to ASP.NET MVC**, enhancing performance and compliance.
- Built a **custom HL7 parser** to process patient data, saving the client **10% in annual costs**.

**Himachal Pradesh University,
Shimla** – Masters in Computer Applications

VOLUNTEER

hillhacks —

Organized and managed ground operations, including contracts, finances, and logistics for a **global hacker/maker conference**.

Hack on Hills: Mentored student communities, helping organize **hackathons** and fostering tech learning

Tech Stack: ASP.NET, C#, Entity Framework, Linq, jQuery, MS SQL Server

PROJECTS

ai-agent-flow — Orchestration framework for building AI agents using Node.js & LangChain.

→ [NPM](#)

MCP News Server — Wrapped Hacker News API with modular contract protocol (MCP).

→ [Blog](#)