

# Dillon Ruiz-Hamilton

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## PROFESSIONAL SUMMARY

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Full-stack engineer with 13 years of experience building production systems across React, TypeScript, Java/Spring Boot, and GraphQL. Proven across healthtech, e-commerce, and platform engineering — from patient-facing EHR tools at Memorial Sloan Kettering to loyalty program infrastructure serving 1M+ members at Wayfair. Comfortable owning work end-to-end, from schema design to deployment.

## SKILLS

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**Languages & Frameworks:** TypeScript, React, React Native, Next.js, Java, Spring Boot, Python, GraphQL, PHP

**API & Data Layer:** Apollo Federation, Netflix DGS, REST APIs, GraphQL schema design

**AI / ML:** LangChain, Retrieval-Augmented Generation (RAG), Vertex AI, Gemini, Anthropic API, multi-agent orchestration, Model Context Protocol (MCP)

**Testing & CI/CD:** Playwright, Buildkite, Azure Pipelines, Jenkins, Docker

**Observability & Analytics:** Grafana, Google Core Web Vitals, A/B testing, D3.js

**Cloud & Infrastructure:** Azure (primary), AWS (S3, Lambda — in progress)

## WORK EXPERIENCE

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### Software Engineer | Wayfair (Contract)

01/2025 – Present

- Built a PagerDuty-triggered RAG incident triage bot using Python, Vertex AI, and LangChain with multi-agent orchestration and conversational memory — reducing root-cause identification time by ~70% for on-call engineers across the org.
- Built an AI-augmented CI pipeline integrating an Anthropic model with Buildkite to auto-diagnose Playwright test failures and post fixes to a shared Slack channel — reducing manual triage from 5–10 minutes per failure to near-zero and surfacing flakiness targets for rewrite.
- Built and deployed a Jira MCP server; drove Model Context Protocol (MCP) adoption within the team, establishing shared guidelines on appropriate use patterns.
- Delivered multiple product initiatives for the Wayfair Rewards loyalty program (1M+ members, 15%+ of U.S. revenue), including a standalone enrollment purchase flow built across React/TypeScript, Java/Spring Boot, Apollo Federation, and Netflix DGS.
- Owned and stabilized the Playwright end-to-end test suite: resolved flaky parallel/serial failures, implemented CI-aware test selection via Buildkite environment variables, and expanded mobile web coverage.

### Staff Solutions Engineer | Walmart (Contract)

06/2022 – 12/2024

- Improved web performance across React and Next.js codebases, achieving a 'Good' Google Core Web Vitals rating and a 50% reduction in Interaction to Next Paint (INP).
- Built React dashboards for CI/CD pipeline observability — visualizing job health, runtimes, and failure rates — backed by Azure data pipelines.
- Led monorepo tooling improvements and build caching initiatives, reducing CI overhead across Walmart's engineering org.

### Software Engineer II | Carbon Health

02/2021 – 06/2022

- Shipped a national COVID-19 clinic locator in Next.js and Google Maps API, supporting routing across 100+ clinic locations in 17 states — part of a network that delivered 2.1M+ COVID tests and 1.5M+ vaccines.
- Built patient onboarding and sign-up funnel features for the EHR platform across React Native and Next.js, integrated with an A/B testing framework to measure retention.

### **Senior Front-End Engineer | Memorial Sloan Kettering Cancer Center**

*01/2017 – 02/2021*

- Built a React-based internal EHR platform serving 1,400+ attending physicians and 4,000+ oncology nurses — features included radiology scan viewing, patient charts, lab trend graphs, and high-performance tables over large clinical datasets.
- Implemented complex state and data management using RxJS and Redux to streamline clinician workflows across structured clinical data at scale.
- Delivered D3.js data visualizations for patient dashboards in close collaboration with clinical, design, and data science teams.

### **EDUCATION**

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**BA, Psychology** | New York University