

Devin Houde

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SUMMARY

Principal Engineer with 12+ years of experience designing and scaling cloud-native systems, building internal developer platforms, and leading high-performing, cross-functional teams. Proven driver of engineering modernization through AI-assisted development, CI/CD automation, and infrastructure as code. Deep expertise in Azure, Kubernetes, DevOps, and secure microservices architecture. Known for empowering engineering teams to deliver at scale through technical vision and operational excellence.

EXPERIENCE

Principal Engineer, Platform & Product Engineering

April 2022 - Oct 2025

Ensemble Health Partners | Remote

- Led a 30+ engineer organization across key initiatives including real-time event processing, site reliability, reusable component development, prior authorization workflows, and a full application platform redesign.
- Championed the enterprise-wide adoption of GitHub Copilot, driving alignment on AI-assisted development and accelerating modernization of engineering practices.
- Designed and delivered a voice-based AI platform integrated with telephony systems, reducing customer service demand by 30% through automated support interactions.
- Introduced Infrastructure as Code to eliminate manual production changes, enhancing deployment consistency, traceability, and platform resilience.
- Optimized platform performance, reducing response and load times from tens of seconds to sub-second speeds through targeted code and architecture improvements.
- Implemented security tooling and workflows, decreasing time to resolution and proactively preventing production vulnerabilities.
- Standardized Agile delivery practices across engineering teams, aligning sprint cadences and enabling a predictable two-week release cycle.
- Built a shared library of Azure DevOps pipelines, streamlining deployment workflows, increasing development velocity, and improving onboarding across teams.

Principal Engineer

May 2019 - April 2022

Optum | Boston, MA & Remote

- Optimized cloud infrastructure for a social determinants of health application, reducing operational costs by over 50% while maintaining high availability and performance.
- Developed and deployed a secrets-scanning tool that monitored over 150,000 internal repositories, significantly enhancing security posture and reducing risk of credential exposure.
- Architected and launched a self-service eventing platform, enabling cross-team access to actionable system events and accelerating operational responsiveness across the organization.
- Led the transformation of a provisioning tool from a monolithic codebase to a modular, scalable architecture, improving maintainability and deployment efficiency.
- Engineered production-ready applications using Infrastructure as Code and reusable Terraform modules, standardizing provisioning processes and improving environment consistency.

Senior Software Engineer

Feb. 2017 - May 2019

Optum | Boston, MA

- Designed and implemented CI/CD pipelines for multiple provider applications and a social determinants of health platform, enabling daily deployment cycles and reducing release friction.
- Developed a centralized, configuration-based portal that empowered engineers to efficiently navigate and utilize a large organization's diverse set of internal tools and portals.
- Established a shared user analytics framework for internal applications, enabling cross-team collaboration and data-driven decision-making across multiple business units.
- Delivered a comprehensive toolkit leveraging open-source libraries to automate and standardize internal code repository management, increasing engineering productivity and consistency.
- Architected and deployed a reverse proxy solution to seamlessly map custom domains to internal documentation sites, streamlining access for thousands of users.

Senior Application Developer

Feb. 2016 - Feb. 2017

Optum | Boston, MA & Hartford, CT

- Introduced and led the implementation of diagnostic dashboards for real-time, intelligent monitoring across a portfolio of microservices—improving system reliability and reducing incident response times.
- Developed and evangelized diagnostic, debugging, logging, and security libraries adopted by multiple provider-facing teams, standardizing best practices and reducing duplicated effort.
- Leveraged AWS to architect and implement robust external routing solutions for high-traffic provider applications, enhancing scalability and availability.
- Designed and implemented a scalable, dynamic gateway for Kubernetes-hosted microservices, supporting seamless routing and high system resilience.
- Mentored and trained new engineering teams, equipping them with the skills and practices necessary to deliver high-quality applications on the provider platform.

Application Developer II

June 2014 - Feb. 2016

Optum | Waltham, MA & Hartford, CT

- Spearheaded the design and development of an onboarding application that streamlined the migration of products onto the provider platform, accelerating time-to-market for new integrations.
- Drove the migration of a legacy Java monolith to a modern microservices architecture, improving maintainability and scalability for provider services.
- Upgraded legacy infrastructure from dedicated virtual machines to a shared, container-orchestrated environment inspired by Kubernetes, reducing operational overhead and improving resource utilization.

Technology Development Program Associate

June 2012 - June. 2014

Optum | Hartford, CT

- Selected for Optum's competitive rotational program, gaining experience across three diverse engineering teams.
- Automated business tasks by building .NET console applications to streamline internal workflows.
- Developed a new web application for ICD-10 code mapping on a small .NET team, supporting healthcare compliance initiatives.
- Contributed to a large-scale, Java-based employer application, enhancing system features and resolving defects.

SKILLS

Cloud & Infrastructure: Microsoft Azure, Amazon Web Services (AWS), Google Cloud Platform (GCP), Kubernetes, OpenShift, Docker, Terraform, Infrastructure as Code (IaC), Event-Based Architecture, Reverse Proxy Configuration, Service Bus, Event Grid, EventHub

DevOps, CI/CD & Automation: Azure DevOps, GitLab, Jenkins, Git, GitHub, SonarQube, Security & Compliance (Snyk, Wiz), GitHub Copilot, AI Pair Programming (Copilot, Claude, GPT), Automated Testing, Unit Testing, Integration Testing, CI/CD Quality Gates, Build & Package Management (Maven, Gradle, npm, NuGet), Bash

Monitoring & Observability: New Relic, Azure Monitor

Architecture & APIs: Microservice Architecture, Event-Driven Architecture, RESTful API Design, GraphQL, Scalable Systems Design

Programming Languages & Frameworks: C#, Java, Python, JavaScript, TypeScript, Groovy, .NET, Node.js

Frontend & Web: React, Angular, HTML, CSS

Databases: SQL, MySQL, CosmosDB, MongoDB, NoSQL

Data & Markup Languages: JSON, XML, YAML, Markdown

Documentation & Knowledge Sharing: Technical Documentation, API Documentation (Swagger/OpenAPI), Knowledge Sharing

Leadership & Strategy: Technical Leadership, Mentoring & Coaching, Cross-Functional Collaboration, Stakeholder Management, Strategic Planning

Security: Security Automation, Identity & Access Management (OAuth, SAML, OpenID), Threat Modeling, Regulatory Compliance (HIPAA, SOC2)

EDUCATION

Western New England University | Springfield, MA

May 2012

Bachelor of Science in Computer Science