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## Richard Franks

### **Principal Software Engineer – Full Stack**

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## **Summary**

Full-stack Principal Software Engineer with 15+ years of experience architecting **end-to-end solutions** across **frontend**, **backend**, **and cloud**. Known as the engineer of choice for the **hardest**, **mission-critical problems** — colleagues describe him as "the closest to a 10x developer," consistently delivering **high-quality solutions at record speed**.

Expert in React/Next.js/TypeScript and Java/Python RESTful APIs (Spring Web, Hibernate, Django, Flask), with deep experience in Azure cloud deployments, CI/CD pipelines, and GitHub Actions workflow automation. Pioneered GenAl-driven healthcare applications including EHR summarization, podcasts, structured data extraction, and real-time clinical Q&A. Recognized with STAR Awards for engineering excellence and delivery of high-impact releases.

## Core Strengths

- **Frontend Engineering**: React, Next.js, TypeScript; design systems, reusable UI libraries, single-spa monorepos
- Backend Engineering: Python (Django, Flask), Java (Spring Web, Hibernate), TypeScript Azure Functions
- APIs & Cloud: RESTful APIs, CRUD microservices, Azure FunctionApps + CosmosDB, Azure Container Apps
- **GenAl Integration**: Al APIs for EHR summarization, **problem extraction**, and **clinical decision support** (medication orders, labs, procedures)
- **DevOps & CI/CD**: GitHub Actions workflows, build/test/deploy automation, cloud-native deployment strategies
- Databases: CosmosDB, PostgreSQL, MongoDB, MySQL, (some Oracle)
- Architecture & Design: Full-stack architecture, microservices, event-driven systems, scalable web applications
- **Collaboration & Leadership**: Cross-functional team leadership, mentoring, architecture board participation, platform strategy
- Problem Solving: Known for tackling complex, high-impact challenges with innovative solutions
- **Leadership**: Mentored teams of 3–4 senior engineers directly, supported 15–20 via platform and framework leadership
- **Recognition**: Multiple STAR Awards, Employee of the Quarter nomination

# Experience

Commure | Senior Software Architect / Principal Software Engineer

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June 2022 - July 2025 | Waltham, MA

 Delivered full-stack GenAl-powered applications for physicians, including patient summaries, podcasts, and real-time Q&A.

- Architected Python AI APIs to:
  - Extract problems, complications, and risk factors from clinical notes with ICD-10, SNOMED, and anatomical coding.
  - Suggest medication orders, labs, and tests/procedures aligned to extracted problems with RxNorm and LOINC standards.
- Built CRUD RESTful APIs in Azure FunctionApps (TypeScript) integrated with CosmosDB for scalable data access.
- Developed React/Next.js UIs to deliver AI insights directly into clinician workflows.
- Deployed containerized backends in Azure cloud environments with automated CI/CD pipelines via GitHub Actions.
- Mentored engineers across UI and backend domains, guiding architectural decisions and cloud deployment practices.

### PatientKeeper | Principal Software Engineer / Architect

2013 - 2022 | Waltham, MA

- Rebuilt legacy physician portal into a customizable dashboard framework, powering 200+ gadgets.
- Designed and delivered REST APIs using Spring Web and Hibernate to support EHR applications.
- Built **React/TypeScript monorepo libraries** for reusable UI components adopted enterprise-wide.
- Active **Architecture Board member**, shaping full-stack technology strategy and standards.
- Implemented GitHub Actions CI/CD pipelines, improving release cadence and developer productivity.
- Recognized with **STAR Award (2020)** for leading UI work critical to the successful 9.2 release.
- Employee of the Quarter nominee (2018) for platform contributions.

### CashStar | Engineer

2009 – 2010 | Portland, ME

- Built Java REST service layer (Spring Web/Hibernate) integrating with 36+ payment processors.
- Achieved **99.88% uptime** with 24x7 support, praised by partners for delivering certification tasks faster than any previous engineer.

#### **Additional Roles**

- REZ-1: Enterprise backend + UI development with Spring, Hibernate, Vaadin, Liferay.
- IDEXX: Java/J2EE consultant on high-visibility veterinary practice management platform.
- Fetch Enterprises: Full-stack development in Java, Django, and web services.

# **Recognition & Awards**

• STAR Award (2020) – PatientKeeper 9.2 UI release

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• STAR Award / Employee of the Quarter Nomination (2018)

# Education

M.S. Computer Science – University of Southern Maine

**B.S. Biomedical Engineering** – Boston University