



# Rajat Shah

Senior Software Engineer & Technical Lead

## Details

### Address

San Francisco, California  
United States

### Phone

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## Links

 /therajshah

## Skills

Java

Scala

Python

Spring Boot

Play

Node.js

MongoDB

Postgres

AWS (S3, EKS, Secrets  
Manager)

Kubernetes

Jenkins

GitHub Actions

OpenAI GPT APIs

Context Engineering

Pandas

Feature Engineering

## Profile

Senior Software Engineer & Technical Lead with 9+ years of experience building AI-driven, scalable systems in healthcare. Proven record leading LLM integrations, high-impact platform modernization, and multi-million-dollar efficiency initiatives across applications serving tens of millions of users.

## Employment History

### Senior Software Engineer / Tech Lead, Optum (UnitedHealth Group)

Oct 2021 — Present    ◦ San Francisco

- Led design and integration of an LLM-powered claims insights system leveraging OpenAI GPT, delivering personalized cost and claim intelligence for millions of members, improving transparency and reducing inquiries by 20%+.
- Directed Stripe-integrated payments modernization powering 80% of MyUHC traffic, saving \$100M+ per year in third-party billing fees.
- Architected fine-grained authorization framework improving login latency by 40% and boosting developer efficiency by \$250K annually.

### Senior Software Engineer, Rally Health (acquired by Optum)

Mar 2017 — Oct 2021    ◦ San Francisco

- Led a team of 5 engineers to deliver new partner integrations 2x faster, helping secure a \$3M enterprise service contract.
- Redesigned client onboarding service (Scala, Mongo, Kubernetes), cutting infrastructure costs by \$1M annually.
- Managed migration of 14+ microservices to modern frameworks, improving performance and maintainability by 20%.

### Early Technical Experience, Various Roles (UC San Diego & Rally Health)

2014 — 2016    ◦ San Diego and San Francisco

- **Intern:** Built a real-time data dashboard using Angular, Scala, and Play, saving 2,000+ hours annually for customer service teams.
- **Assistant Developer:** Developed an interactive online learning system with JavaScript, Node.js, and Backbone, improving learning outcomes by 40%.
- **Tutor:** Taught Object-Oriented Programming (Java) to 80+ students, improving assignment completion and conceptual mastery.

## Education

### University of California, San Diego, B.Sc. in Computer Science

Sep 2012 — Dec 2016    ◦ San Diego