

JEEVANRAM KASIVISWANATHAN

SENIOR PRINCIPAL SYSTEMS ARCHITECT

www.xome.com

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Code Repo <https://github.com/jeevanram/>

M.S Software Engineering (2006-2011)

PSG College of Technology, Coimbatore, India

CGPA: 9.26/10

Summary

- Highly committed and passionate engineer with impeccable accountability and experience building and delivering highly scalable solutions.
- Senior Architect for Xome and direct the engineering teams across locations on technology and define the enterprise coding standards for the engineers to follow.
- Responsible for strategic technology roadmaps and modernizing the company's technology to use the latest frameworks (like .NET 7, Entity Framework, React/Razor pages).
- Research emerging technologies and industry trends and present them to the leadership team to better serve the Xome business partners and users.
- Built products from scratch until release and post-release stabilization.
- Experience managing acquisitions by handling large volumes of data, strategizing, and integrating similar systems, documenting the product archives with design, complex workflows, and coordinating knowledge transfer.
- Proficient in OOPs, Design patterns, Data Structure and Problem Solving, Software Design, and Architecture.
- Actively participated in the company-wide hackathons and successfully pushed my hackathon initiatives to production, working with the product management team.
- Proficient in Microsoft technologies .NET 7, EF Core, ASP.NET, MySQL, C#, SQL Server, XUNIT

Professional Experience

JUN 2011 - Present

XOME (2015-present)

Xome is a digital platform that connects every single process of real-estate process. It is a one-stop shop for home sellers and buyers who want to save money and complete their transactions with the utmost confidence. Xome offers services for home sellers, home buyers, banks and lenders, and agents and brokers.

Xome offers a suite of valuation solutions (XVAL) ranging from Appraisals, BPOs and alternative valuation products for mortgage originators and services nationwide.

I joined XVAL as the primary developer (1st developer). In 2015, designed and developed the product from the ground up, released MVP in 6 months timeframe, integrated acquired valuation products in 2018 and grew the team to 20+ engineers.

Highlighted below are a few milestones that I achieved at Xome.

- **In 2015**, Designed and developed Xome Acuity Integration Framework – A core component and highly available API service for receiving and delivering valuation orders from Banks and other mortgage companies. **Built the Xome valuations product from scratch** and released the MVP to production.
- **In 2017**, Xome's parent company Mr. Cooper decided to refactor the reverse mortgage platform written in C++. Rewrote the monolithic application as microservices using **Java - Spring boot and containerized using Docker and Kubernetes**, which helped the company to get rid of the 30+ on-prem servers saving millions of dollars of operational cost for the company.
- **In 2018**, .NET CORE migration - Modernized the XVAL (Xome Valuations) product from the **.NET framework to .NET Core**. Integrated with NewRelic for telemetry and distributed tracing.
- **In 2019-2020**, Managed the Xome Valuations – Assurant merger. Developed integrations to interconnect different systems to make it a One-Xome platform. **Responsible for migrating millions of historical data** from VAL-D (default properties) and VAL-O (origination properties) to X-VAL.
- **In 2020-2021**, Developed a contract management configuration portal for businesses to configure signing locations and include different signing documents for properties based on a defined set of rules. **Improved operational cost** by providing a user interface for the business team to handle contract management and saved a significant amount of engineering time and code deployment (earlier, a code deployment was required to publish any configuration changes).
- **In 2022, Led the cloud migration initiative** and migrated Xome products from on-premises to the cloud infrastructure (Azure)
- **At present**, responsible for defining and **managing Xome's enterprise architecture**. Building up the proof of concepts and base frameworks for the engineering teams.

Technology

C#, .NET 7, EntityFramework Core, SQL Server, .NET Framework, XUNIT, ELK, Redis, RabbitMQ, Docker and Azure cloud features – AppInsights, KeyVault, Cloud HSM, API Management Services.

Senior Principal Systems Architect

Mar 2023-Present

Xome, Lewisville, TX, USA

www.xome.com

- Define the enterprise coding standard for Xome.
- Lead and manage the architecture for www.xome.com, auction line of business including e-Sign, Auction Platform, Cascade Asset Management Portal and Vendor management platform.
- Evaluate business requirements and produce system design blueprints that enable engineering teams to develop robust, flexible, and secure systems to support enterprise initiatives.
- Architecture review on new feature developments at Xome.
- Develop proof of concepts for the engineering teams.
- Design and develop frameworks for different engineering teams.
 1. Incremental migration of asp web forms legacy applications to Razor pages.
 2. Identity service with AzureADB2C for Xome customers with a plan to migrate existing Xome

- users to AzureADB2C using Azure user flows and custom policies.
3. Azure API Management Services to consolidate APIs that multiple products at Xome offer and set up the API developer portal with subscription-based model, handle API throttling, and set request limits based on user subscription.
- Modernize Xome's technology stack to follow microservice architecture.
 1. Set up an incremental approach to migrate API endpoints from .NET Framework to .NET Core.
 2. Implement docker support to existing legacy applications using windows container and Linux container for .NET core services.
 3. Standardize Xome applications to store the date-time in the UTC time zone. One of my successful initiatives is working with different application teams at Xome to host the data in a cost-effective azure SQL-managed instance with a data backup set at another region for a DR.

Principal Software Engineer

Mar 2020-Feb 2023

Xome, Lewisville, TX, USA

www.xome.com

- Proposed and developed cost-saving features for business, including – Contract Configuration Management Portal using React and .NET Core, Integration Monitoring and Support portal to help the operations team quickly identify and respond to integration failures or retry any requests if needed.
- Follow team management principles like ensuring the product design documentation is up to date before the development, practicing blameless post-mortem s for any issues reported in the production with an accurate timeline, and retrospection with the team.
- Migrated applications from on-prem servers to Cloud Infrastructure – Microsoft Azure, Google Cloud Platform.
- Designed and developed the Workflow rule engine in Xome Esign (An In-house product of Xome like DocuSign) to generate Legal Contracts for real estate properties.
- Designed and developed a compliance feature to digitally sign the Xome-generated contracts with the certificates managed in the Cloud HSM to avoid tamper and forgery.
- Developed an SMS framework for Xome collaborating with Twilio APIs.

Senior Software Engineer

Sep 2018 – Feb 2020

Xome, Lewisville, TX, USA

- Integrated acquired platforms with Xome, making the latter a single service platform for valuation by developing new microservices.
- Responsible for migrating millions of data and file shares from the acquired systems to Xome.
- Migrated application code from TFS (Code management platform) to GIT (Code management platform).
- Developed various core features for Xome.
 - Split Payment - An ability to pay using multiple credit cards and mediums of payment (like Invoice + Credit Card).
 - Historical Data Migration - Developed a console tool to extract data from legacy valuation systems into Xome.

Technical Lead

Apr 2018 - Sep 2018

Xome, Chennai, India

- Managed a 5-member development team and mentored them.
- Designed and developed Auth Service for web services using JWT (JSON token-based authentication and authorization).
- Re-engineered the reverse mortgage API services, a very old legacy application written in c++ and running as a black box code in 30+ servers, to scalable microservices in Java and containerized them in Azure Kubernetes Service (AKS) with improved performance. Also, saving a lot of infrastructure and maintenance costs for the company.

Senior Software Engineer

Mar 2015 - Mar 2018

Xome, Chennai, India

- Developed and managed green-field product Xome Valuations with a small team (2 Developers + 1 Product Manager) with an aggressive timeline of 6 months to MVP.
- Designed API-based integration using RESTful Services and Implemented the Template method pattern as part of an integration framework.
- Designed the Single Sign-On functionality for our integration vendors to log in across multiple platforms to submit the BPO report. It is now widely used across different products across Xome.
- Workday integration - Developed a service to push billing reports (Account payables and Account receivables).
- Designed and developed the logic for risk scoring in a valuation report submitted by an appraiser agent on a property.
- As an enhancement to the Integration framework, Introduced RabbitMQ to process the service requests, support asynchronous processing, and reprocess the unsuccessful request calls in the event of failure.

Senior Software Engineer

Apr 2014 - Mar 2015

Scantron, Chennai, India

<https://www.scantron.com>

Technology: ASP.NET Web Forms, C#, SQL Server, RDL

- Design and develop Curriculum Import/Export tool (CIE tool) - A proprietary software for educational content transfer from one organization to another.
- Work on the XSD schema definition and develop business entities in code that packages the content using XML in the CIE tool.
- Design and develop RDL-based reporting documents for safety measure forms and student grade books.
- Mentor peers within the team technically and across the team functionally

Software Development Engineer

Jun 2011 - Mar 2014

Scantron, Chennai, India

<https://www.scantron.com>

Technology: ASP.NET Web Forms, C#, SQL Server, WOWZA, jQuery, JavaScript, Java.

- Design and development of content management system for educational services in Harland Clarke for K12 education
- Develop an in-house form engine that allows users to add and align different question formats to the assessment tool. Formats like multiple-choice, short answer, match etc.
- Enhance the User Interface using jQuery and JavaScript to develop personalized learning features of the educational software that helps create learning paths and workouts based on individual student needs.
- Develop a notification system using ExactTarget and SMTP to integrate with google/outlook calendars to remind students about upcoming assessments, events etc.
- Develop a configuration management tool to update configurations in the test and production environment.
- Develop text editor for the platform using third-party CK-Editor package integration.
- Follow test-driven development and increase the unit test coverage above 80 percent using the NUNIT test framework.
- Work on application performance tuning and fixing production issues.

Software Development Engineer – Intern – 10th Semester

Dec 2010 - May 2011

GlobalScholar(Acquired by Scantron), Chennai, India

<https://www.scantron.com>

- Develop a desktop application with Remote Sharing and Co-Browsing.
- Develop an interactive forum and virtual classroom for teachers and students to interact using Adobe flex.
- Technology Used: Java, Adobe Flex, Wowza Server.
- Develop the API health monitor system for GlobalScholar.

Software Development Engineer – Intern – 7th Semester

Jun 2009 - Nov 2009

HashCube Games, Bangalore, India

<https://www.hashcube.com>

- Involved in the UI development of a Facebook Sudoku game.
 - Developed features for the website using jQuery and JavaScript.
 - Technology used: Java, JavaScript, HTML
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Certification



This acknowledges that

JEEVANRAM KASIVISWANATHAN

has successfully completed all the requirements to be recognized as

**Google Cloud Certified
Associate Cloud Engineer**

Series ID: 60670
Issue Date: 2 Aug 2022
Expiration Date: 2 Aug 2025
Certification ID: Y7wo7V
Certified As: JEEVANRAM KASIVISWANATHAN

Thomas Kurian
CEO, Google Cloud



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