

# Ramya Krishnan

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## EDUCATION

ILLINOIS INSTITUTE OF TECHNOLOGY, CHICAGO, IL

May 2024

### Master of Computer Science

Relevant Courses: Advanced Database Organization, Software Project Management, Big Data Tech, Information security, Software Quality Management

GPA: 3.7/4.0

KONGUNADU COLLEGE OF ENGINEERING AND TECHNOLOGY, TRICHY, INDIA

June 2008 - April 2012

### Bachelor of Electronics and Communication Engineering

GPA: 3.4/4.0

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## SKILLS AND CERTIFICATIONS

PROGRAMMING LANGUAGES: .Net core, Blazor, Rest API, C#, ASP.Net, ADO.Net, Vb.Net, C/C++, Windows Communication Foundation(WCF), Windows Presentation Foundation (WPF), Application Programming Interface(WebAPI), HTML/CSS, Python, Microsoft SQL Server(MS SQL), Kafka, Mongo DB, Spark, Hive, NoSQL, Hadoop

LANGUAGES AND TOOLS: SOAP UI, Postman, Visual Studio, Eclipse, SSMS, Azure DevOps, continuous integration and continuous delivery/continuous deployment(CI/CD), Ctrl-M, Autosys, Bamboo builds, Udeploy, JIRA, Team Foundation Server, Git, Google Cloud Platform(GCP), Flask, Amazon Web Services(AWS), Docker, Microsoft Project Management

DEVELOPMENT METHODOLOGY: Agile, Waterfall

INDUSTRY EXPERTISE: Retirement Plan, Retail, Wealth and Asset Management, Trade and Index Calculation, Healthcare Management

LEADERSHIP QUALITIES: Articulate, Versatile, Collaborative, Detail-oriented, Analytical, Visionary, Motivated, Agile

Certifications: AZ 900- Microsoft Azure Fundamentals

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## EXPERIENCE

*.Net Team Lead*

June 2023 - Present

**State of Missouri**

Jefferson, MO

- Skillfully led a team of 7 members, ensuring on-time project deliveries and excellence
- Fostered open communication and collaboration through engaging team meetings, driving improvements
- Made significant functional enhancements to a driver's license application for greater efficiency and user-friendliness
- Efficiently improved SSRS reports, elevating their quality and accuracy
- Involved in creating proof of concept integrating Service Now into driver's license forms processing, optimizing workflow.
- Contributed in rewriting the legacy application with Blazor Rest API and .net core.

*Application Development Associate Manager*

July 2019 - August 2022

**Accenture**

Chennai, India

- Created and executed a user-friendly healthcare claims submission web application, facilitating expedient and effortless claims submission for more than 5 million providers and recipients using ASP.Net and MS SQL
- Led an agile team of 20 to ensure timely project deliveries and efficient collaboration
- Engineered adaptable AES encryption and decryption elements for AWS buckets to optimize encryption workflow and decrease manual work
- Established a robust Azure CI/CD pipeline to systematize production deployment of over 15 application components, resulting in enhanced efficiency and faster deployment times
- Led architectural changes, such as Azure functions and Elastic search, to enhance application performance by 15%, resulting in faster processing times and revamped user experience
- Devised an admin portal with role-based access control to enable efficient user access and permissions management, resulting in advanced security and accountability

*Senior Associate Consultant*

August 2017 - July 2019

**Infrasoft Technologies Ltd**

Chennai, India

- Integrated data feeds from Bloomberg, Reuters, and WMR rates, resulting in more accurate and efficient decision-making, and stored the data in AWS S3 buckets
- Established and incorporated booking and risk trades into settlement systems, minimizing manual effort by 30% and refining settlement processes by 20%, resulting in advanced operational efficiency and cost savings

- Migrated the Linux server to a cloud system, strengthening server efficiency and scalability, resulting in boosted performance and reliability
- Programmed AutoSys for automated job control for scheduling, monitoring, and reporting, optimizing operational efficiency and reducing manual intervention, resulting in streamlined business operations
- Implemented internal build tools for application deployments, such as ATOM and GFI toolbar, simplifying the deployment process of 3 applications and reducing deployment time, resulting in high efficiency and cost savings
- Evaluated TIBEMS and TIBRV messaging services for communication between client and server, resulting in a 5% improvement in data transmission speed in trading and index calculation, enabling faster analysis and profitability

*Associate*

June 2016 - June 2017

**Cognizant**

Chennai, India

- Utilized REST and SOAP services for seamless integration of the application with external systems, ensuring smooth functioning and reducing errors by 15%
- Adopted best coding practices and Resharper plugin for code maintenance, resulting in a 25% reduction in development time and increased code quality
- Revamped unit testing approach by leveraging NUnit and MOQ, leading to a 30% decrease in application errors and bolstered stability of 3 core modules
- Utilized design patterns such as MVVM Singleton Pattern and Factory Method to implement an efficient and scalable application architecture in 3 modules of a Windows application for wealth management purposes
- Improved the software development lifecycle(SDLC) by conducting comprehensive tasks: requirements gathering, system analysis, development, legacy code review, debugging, and issue resolution, resulting in 25% fewer application errors
- Generated documentation for code and reviewed and updated the code environment to improve system performance, resulting in a 15% increase in application stability

*Technology Analyst*

October 2015 - June 2016

**Infosys Ltd**

Chennai, India

- Developed and deployed a store management application for US retail store customers, suppliers, and admin users, with over 100+ applications in the common retail, achieving implementation and adoption by end-users
- Migrated the application to be compatible with multiple browsers, resulting in improved accessibility and enhanced functionality for 100+ applications for end-users
- Performed system analysis, development, and legacy code review for over 6 projects, ensuring a high-quality and stable codebase
- Resolved compatibility for 10 retail apps with multiple teams, leading to better user experience and satisfaction while maintaining the store management app's functionality
- Collaborated with 5 cross-functional teams to expedite project delivery and modify communication among stakeholders
- Played a key role in designing the database architecture, pattern designs, and client demo preparations to ensure the application met and exceeded the client's demands and specifications for 3 web applications

*Software Engineer*

August 2012 - October 2015

**Congruent Solution Pvt Ltd**

Chennai, India

- Developed and deployed a multi-tiered web application using .NET object-oriented architecture for a US pension plan, optimizing the efficiency and accuracy of the administration process across 5 modules
- Specialized in the SDLC, from requirement gathering to product deployment for a pension planning application, collaborating with a team of 4 to assure project success
- Volunteered for 2 client demos, incorporated client-specific requirements to ensure the application met needs, and leveraged LINQ and Lambda expressions for development
- Utilized ADO.Net to access and update the application's database, working extensively with Data Adapter, Dataset, and DataReader
- Developed T-SQL queries and wrote stored procedures using SQL Server, ensuring efficient and effective data management
- Performed manual deployment in Team Foundation Server (TFS), ensuring the application was properly deployed and functional for end-users across 5 applications

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## LEADERSHIP

- As a Graduate Teaching Assistant at the Illinois Institute of Technology, I enhanced learning with personalized feedback, collaborated on engaging lectures, and ensured fair assessment.
- Volunteered to educate children at shelter homes through the "Make A Difference" organization
- Volunteered in Empowering women through awareness videos while volunteering with the non-profit, Aware India