

# RAGHU MUTUM

📧 raghu\_mutum@outlook.com | ☎ (630) 531-1529 | 🔗 [LinkedIn profile](#) | 📍 Naperville, IL

## PROFESSIONAL SUMMARY

An accomplished software engineering Director with about 20 years of experience driving digital transformation, enterprise IT programs, and architecture strategies. Proven expertise in leading cross-functional teams, developing IoT products, and overseeing enterprise-wide initiatives. Currently managing a team of 30+ members focused on connected vehicle solutions. Strong background in designing and implementing hybrid cloud solutions, architecting complex, object-oriented software, and delivering high-impact technology initiatives. Adept at collaborating across departments to ensure operational excellence and foster innovative digital solutions.

## CORE COMPETENCIES

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| ☑ Digital Transformation & Cloud-Native Architecture | ☑ Cross-functional Team Leadership & Stakeholder Collaboration |
| ☑ Agile Development, DevOps & Program Management     | ☑ IoT Solutions & Connected Vehicle Technologies               |
| ☑ Software Engineering Leadership & Innovation       | ☑ Enterprise Architecture & Hybrid Cloud Strategies            |

## PROFESSIONAL EXPERIENCE

**Zonar Systems, Inc., Seattle, WA**  
*Director of Software Development*

**Mar 2023 - Present**

Manage a portfolio of Electronic Log Devices (ELD) and Hours of Service (HOS) solutions, mobile ecosystem development, and offshore contractor management. Key achievements include:

- Leading a team of 19 employees and 15 contractors, ensuring timely software delivery and budget management.
- Spearheading a project to improve ELD software quality by reducing Unidentified Driving Logs (UDL) by 40%.
- Enhancing Zonar's HOS platform quality and compliance, significantly reducing mobile ecosystem software defects and improving NPS (net promoter score) to reduce customer churn.
- Developing a strategic roadmap to expand product offerings, including BYOD, improved connectivity between a telematics device and a handheld device, and predictive driver behavior reports.
- Managing a \$3M+ annual budget for offshore teams in partnership with Hitachi Digital Services.

**Hub Group, Oak Brook, IL**

**Aug 2022 – Mar 2023**

*Director of Software Engineering (Full Stack Development, DevOps and RPA)*

Managed a diverse portfolio of DevOps, Robotic Process Automation, and full-stack development with a team of 20 engineers.

- Provided leadership and technical vision for enterprise CI/CD pipelines and microservices deployment.
- Led the team that created and maintained enterprise CI/CD pipelines, built automated scripts to deploy server updates, software patches, and emergency fixes. Managed all production promotions for the enterprise, collaborating with various teams such as SOA, B2B, OTM, and full stack development for their CI/CD pipelines and promotions. Deployed and monitored all Microservices.
- Led the adoption of infrastructure-as-code (IaC) tools like Docker, Terraform, and Azure DevOps.
- Led the team in strategic planning of the product roadmap, requirements, design, and development.
- Directed business process automation using UiPath and streamlined software deployment processes.

**Navistar. Inc., Lisle, IL**

**Sep 2016 – July 2022**

*Senior Information Systems Manager (Connected Services IoT Platform)*

Led a team of 40+ engineers in the development and maintenance of IoT-based premium fleet solutions for connected vehicles.

- Managed product development and innovations for solutions including Advanced Preventive Maintenance, Fuel Analytics, Fleet Health Monitoring and Tire Pressure Monitoring.



- Led planning for the product roadmap, requirements, architecture, design, and development.
- Led the team in feature identification and innovation, deriving insights and actions through data analysis from the data that are collected from IoT devices.
- Developed and deployed geofencing and mapping solutions based on real-time vehicle tracking data.
- Directed the redesign of the Vehicle Diagnostics and Analytics platform, improving customer benefits through actionable insights.

**McDonald's Corporation, Oak Brook, IL****Oct 2014 – Sept 2016*****Enterprise Architect (US IT Foundations Support & Services)***

Architected and designed enterprise-level systems, focusing on integration and security.

- Delivered high-level and mid-level design documentation and infrastructure requirements for critical systems.
- Participated in TOGAF-based architecture development and collaborated with cross-functional teams to implement IT solutions. Published, socialized, and sought approval of design concepts. Worked with the Architecture Review Board.
- Delivered high-level and mid-level design documents, functional and non-functional requirements documents, process requirements documents, infrastructure requirements documents, etc. Responsible for Data Distributor solution design, Back Office Server security redesign, Cash-and-Inventory module SSO integration, SSO integration with third party software vendors/platforms and Learning Management System.
- Participated in product and vendor vetting process.

**Riverside Publishing, Rolling Meadows, IL****Apr 2009 – Sep 2014*****Software Development Manager (K12 Learning Systems and Testing Portals)***

Managed software development for K-12 assessment tools, leveraging Agile and Scrum methodologies.

- Led a team of developers and analysts to design and implement online testing systems for education. Main responsibilities included architecting, designing, and developing web-based assessment tools for K-12 schools.
- Facilitated collaboration between onshore and offshore teams to ensure timely delivery of products.
- Mentored junior team members.
- Delivered high-level and mid-level design documents, functional and non-functional requirements documents, process requirements documents, infrastructure requirements documents, etc. Responsible for Digital Transformation and Pivot. Led in adoption of Scrum/Agile methodology to develop software. I participated in product and vendor vetting process.
- Published, socialized, and sought approval of design concepts. Worked with the Architecture Team, Product Owners, business users and customers.

**The Northern Trust, Chicago, IL****Sep 2008 – Mar 2009*****Software Solutions Architect (Customer facing portal development team)***

Designed and developed portal applications for managing bank accounts and online services.

- Created integrations between various platforms using web services to enhance customer interactions.
- Created a customer facing portal named Passport Portal 7 to allow users of the bank to manage their accounts.
- Designed, created, and tested Online Help & Support feature of the portal application. Delivered high-level and mid-level design documents, functional and non-functional requirements documents, process requirements documents, infrastructure requirements documents, etc.
- Facilitated collaboration with various development teams that implement software solutions. Published, socialized, and sought approval of design concepts.

**Veterans Affairs, Hines, IL****Mar 2007 – Sep 2008*****Software Solutions Architect (Framework and Architecture Services Team)***

Developed architectural standards and frameworks for enterprise-wide web applications.

- Responsible for creating architectural standards and rolling out framework components to be used by other development teams.
- Developed a generic type-safe Data Access layer using Spring, Java 5 Generics and JPA (Kodo implementation) to be used enterprise wide at VBA. This DAO layer provides CRUDs and queries for the corporate database to the web development

teams with minimal coding and configurations. It also prevents error-prone type casts by using Java 5 Generics. Used openjpa tools – schema mapping and reverse mapping – to create domain objects/entities for the layer. Prototyped DAO layers with Oracle's Toplink, Hibernate and Spring.

- Built an enterprise logging framework for VBA web applications leveraging log4j. It enables centralized logger configuration for all web applications and monitoring from a single management console. Built a tool to allow runtime changes to the logging environment. Built a tool to trouble-shoot class loader issues by pinpointing the sources of class definitions at runtime. Created prototypes of logging framework using commons logging, slf4j and log4j decorator.
- Created a module to enable transaction performance monitoring using EJB 3 Interceptors. Besides EJB3 Interceptors, built a prototype using AspectJ. Created web application prototypes using Java Server Faces (JSF) and EJB 3.
- Published, socialized, and sought approval of design concepts. Worked with the Architecture Review Board.

## Riverside Publishing, Rolling Meadows, IL Application Architect

Apr 2001 – Mar 2007

Architected and developed web-based assessment tools for K-12 education.

- Delivered scalable solutions for high traffic testing engines, supporting K-12 schools' 1.8 million users.
- Main responsibilities included architecting, designing, and developing web-based assessment tools. Analyzed requirements specified by the users and developed object models and application architecture required to support those requirements. Provided technical alternative trade off analysis.
- Prototyped and created proofs of concept. Researched new and emerging technologies and provided recommendations on the application of researched technologies.
- Analyzed and designed systems using UML tools like Rational Rose and Rational XDE. Developed object models, recommended development tools and platforms, produced architectural documentation and diagrams, and served as a resource and/or subject matter expert to the team developing the solution.

## EDUCATION

- Master of Science in Computer Science

## CERTIFICATIONS

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| ▪ Microsoft Certified: Azure Solutions Architect Expert  | ▪ AWS Certified Solutions Architect – Associate           |
| ▪ Microsoft Certified: DevOps Engineer Expert            | ▪ Microsoft Certified: Azure AI Fundamentals              |
| ▪ Microsoft Certified: Azure Security Engineer Associate | ▪ Sun Certified Programmer for the Java 2 Platform        |
| ▪ Microsoft Certified: Azure Administrator Associate     | ▪ Microsoft Certified: Azure Data Fundamentals            |
| ▪ Microsoft Certified: Azure Fundamentals                | ▪ Certified in Production and Inventory Management (CPIM) |

## PATENTS

- US Software Patents # 9230445, 9142136, 9111455, 9111456, 8297984, 8219021, 8128415, 7886029 and 7713065.

## TECHNICAL SKILLS

- Cloud Platforms: Azure, AWS, AKS, Azure DevOps, Terraform, AWS Lambda, Azure Functions, Azure DevOps, ARM Templates
- DevOps & CI/CD: Docker, Kubernetes, Jenkins, SonarQube, GitHub, Chef, Terraform, IaC
- Databases: SQL Server, MySQL, NoSQL, Oracle, DB2, Kafka, Hadoop, ADF, Data Warehousing
- Tools & Technologies: Jira, Confluence, Apache, Tomcat, WebSphere, AquaLogic ESB, SOA, WebLogic Portal
- Architecture: Microservices, SOA, Hybrid Cloud, SaaS
- Software Development & Frameworks: JEE, Java, JSF, JSP, Servlet, EJB, .NET, C#, Spring, Hibernate, ORM, JavaScript, CSS, jQuery, HTML, Python, PHP, JavaScript, Python, C#, .NET, CSS, React, Angular
- Methodologies: Agile, Scrum, SDLC, Kanban, DevSecOps, DevOps
- Other Skills: Business Process Re-engineering, Digital Transformation, Cloud & Enterprise Architecture, Big Data, IoT, Data Visualization. Excellent Written and Verbal Communication Skills. Analytical & Communication Skills. Strong Analytical, Quantitative Skills, Gap Analysis, and Design Thinking.
- Tools & Platforms: Jira, Confluence, MS TFS, SVN, Visio, Snag-it, Axure, Zeplin, MS Excel, Word, PowerPoint, Project
- Operating Systems: Windows, Linux, Unix, OS/400, Mac OS