



# Shyamsundar Nuggehalli

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## SUMMARY

Software engineering leader providing strong technical leadership. Key member of the product architecture team of Siemens PLM Software. Ability to work with distributed teams within the company and external partners in a fast-paced environment.

## PROFESSIONAL EXPERIENCE

- Manage high impact cross functional projects from inception to delivery.
- Provide regular updates to upper management and key stake holders.
- Collaborate with product managers to assess the technical impact of business requirements.
- Provide risk assessment to management, and monitor project schedules and resources.
- Work closely with developers to ensure all the Software development guidelines are followed.
- Conduct code reviews. Review system architecture for ease of maintenance and security issues. Work with onsite and offsite development teams.
- Develop best practices and coding standards for development organization.
- Automate development activities to support continuous release.
- Review and approve project test plans and coordinate with the testing team to ensure delivery of project with required quality.
- Coordinate the project roll out with other development teams as well as release management to ensure smooth delivery of the project.
- Provide company-wide technical presentations. Publish white papers on new technology for customers during new product roll-out.
- Instrumental in executing the localization effort to support worldwide distribution.
- Perform Threat Risk Analysis on new projects to ensure the organizational security guidelines are followed.
- Setting up the SRE team for NX SaaS and developing the procedures for handling service incidents.
- Responsible for resolution of customer escalations related to deployment, upgrade, configuration & usability issues.
- Conduct technical interviews and hire talented engineers for the team. Mentor and guide development teams.
- Closely interact with the design office and participate in center for excellence initiatives.
- Involved in the design and implementation of pilot projects to explore new technologies that could enhance the existing product.

## Key Initiatives and projects

- Operational and Security improvements for NX SaaS.  
Resolve issues identified during the Well-Architected Framework review. Manage the SRE team. Conduct operation reviews by gathering data from Cloud watch, Athena, Inspector, GuardDuty, IAM, SNS and other related services. Create and maintain the Runbook and Playbook and organize game days. Monitor SLA and ensure the RCA for any PagerDuty incidents are properly documented. Gather cost data from the const explorer for the organizations account and identify and document best practices for efficient operations. Design administrative tools for monitoring the status of the services.
- Feature flags for continuous code integration.  
Review the requirements and schedule meetings to plan the implementation phases.  
Coordinate the implementation of the POC and present the results to stake holders. Identify the tasks for implementation and finalize the assignments. Monitor the progress of the project and relay the progress and risks to upper management.  
Conduct code reviews and coordinate testing with product validation. Resolve issues identified during testing.

Ensure the final product meets all the criteria for integration into the main branch.  
Conduct training sessions and prepare training material for the rest of the organization.

- Create dashboards for business process reviews. Setup teams and channels in Microsoft Teams for different development areas.
- Internationalization of product to expand license growth in emerging markets.
- Securely transfer encrypted design data between collaborating teams.
- Java based IDE for codeless customization of Teamcenter server.  
Instrumental in creating an IDE based on the Eclipse using EMF, GEF.  
Worked on creating the data model, UI and dialogs.  
Created a testing framework for testing the different components.
- Performance and scalability improvement project to support increase in number of concurrent users in distributed systems.

## WORK HISTORY

### Siemens PLM Software

#### ***Engineering Leader, NX Core & Cloud Services***

2012-Current

#### ***Engineering Leader, Teamcenter Architecture***

2009-2011

#### ***Software Engineer III***

2005-2009

### Autodesk

#### ***Software Architect***

Atlanta, GA — 2002-2004

### Alventive

#### ***Software Engineer***

Atlanta, GA — 2000-2002

## SKILLS

- Agile software development
- Managing a global team
- Test-driven development.
- Mentoring and guiding new hires.
- Data sharing on the cloud.
- Security and Encryption.
- API Design, UI design, Object Orientated design and REST APIs
- Server customization, Data Migration, Globalization.
- Data structure design, Metadata management.
- Scalability & Performance, Data mining tools.
- Automated testing framework design.
- Review design documents.
- Server and client data model design, server customization.

## TECHNOLOGY

- JAVA, C++, Perl, Python, Javascript, node.js
- Perforce, GitLab
- JIRA, Polarion, CICD, Microsoft Teams
- AWS (IAM, EC2, CostExplorer, Inspector, Guardduty, CloudWatch, DynamoDB)
- Postman, Docker, Node.js
- Application servers, Databases
- Eclipse IDE, EMF
- Windows, Linux environments
- UML designing, Unit testing frameworks.
- 3D modeling and printing.

## **AWARDS**

### **Siemens You Answered Recognition**

NX Architecture, 2021

### **All Star Award**

NX Architecture, 2018

### **All Star Award**

Teamcenter Center for Excellence, 2011

### **All Star Award**

Teamcenter Management, 2008

### **Technology and Innovation Award**

Industry Week, 2005

## **EDUCATION**

### **University of Wisconsin, Madison**

*Mechanical/Comp Sc Engineering, PhD*

The primary area of research was on developing a cloud-based software for collaborative design.

### **Indian Institute of Science, India**

*Mechanical Engineering, Masters*

### **Anna University, India**

*Mechanical Engineering, Bachelors*