

Senior Manager of Software Engineering

Driving Digital Transformation through Scalable Architecture, High-Performance Teams & Cloud-Native Innovation.

- Experienced technology leader with over **20 years** of driving innovation, cloud modernization, and agile transformation in enterprise environments.
- Proven track record in leading **globally distributed teams** from Ukraine, Costa Rica, Brazil, Mexico, India and USA.
- Skilled in cloud architecture (AWS), **Microservices**, SRE, and DevOps practices. Passionate about building high-performing teams and delivering scalable software solutions.
- Led teams in the strategic adoption of AI/ML and GenAI tools to streamline the development of business features, enhance reporting capabilities, and refining demand forecasting and growth analytics.

Key Achievements & Impact

- **Executed Engineering Transformation:** Built, analyzed and adopted **GenAI tools** for building applications. Pioneered **SRE** practices and achieved enhanced **reliability, issue detection, and resolution (MTTD, MTTR)** to align with organizational goals. **Shifted testing left** to improve code quality by 75% during the development phase. Achieved daily/weekly production release cadences using Agile best practices.
- **Modernized Legacy Applications:** Revamp legacy applications with **microservices** architecture, streamlining maintenance and accelerating independent value delivery. Migrated systems to **AWS cloud** infrastructure. Drove adoption of **Infrastructure as Code (IaC)** practices using **Terraform** across three teams, reducing infrastructure provisioning time by 60% for new environments. Overhauled automated test suite to reduce execution time from 1 week to 4 hours.
- **Enhanced Software Engineering Practices:** Integrated functional test suite execution with deployment pipeline for early issue detection achieving below 5% production failure rate. Achieved **90% code coverage** by adopting **TDD, BDD** practices. Reduced production defect resolution time by 60% through DevOps **YBYO**, runbook automation, automated **monitoring**, and **traceability**.
- **Optimized System Performance and Cost Efficiency:** Improved critical **API endpoint performance** by 30% through **query optimization**, and **indexing**. Reduced transactional database load by 10% by eliminating pre-loading of data during login. Achieved \$60K/month cost savings by transitioning to an **on-demand cloud procurement** model and streamlining Test/QA environments. Boosted database performance by over 40% by creating and separating a read-only **replica database** for reporting application and introducing **Redis caching** strategy.

Career Experience

Advanced Info Technologies, VA
Transformation Engineering Lead

April 2024 – Present

Led engineering transformation through process improvements, shift left testing, agile delivery process with incremental value delivery. Build cross-functional agile team that implement, test, and support Patient Scheduling application.

- Designed application services to be independently deployable modules thereby reducing the overall deployment time, application maintainance, and error handling.
- Led migration of legacy applications to AWS cloud, reducing the operational costs and infrastructure maintenance.
- Mentored team on shift-left testing, collaborative development techniques to gain common understanding of code.
- Identified the need for log standardization during production issue triaging, and implemented a tracing across multiple services to track user navigation that reduced triage duration.
- Collaborated with CICD team to integrate test suite execution in the pipeline as part of deployment process.
- Transformed teams to agile development and delivery practices instilling product mindset, incremental value delivery, and frequent feedback loops.
- Coached teams on how to adopt and utilize ScrumBan for product feature building, Kanban for production support.
- Created team charter with Team Norms, DoR, DoD at Epic, Feature, and Story level and ensured those are met during grooming, planning, and sprint review time.

- Collaborated with Product Owners, and Product Management to create and refine backlog with multiple Product Increments for PI Planning.

Henry Schein One, UT

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Aug 2022 – April 2024

Led multiple cross-functional agile teams for Dentrix Ascend—including Public API, Platform Engineering, and Data Warehouse and Reporting—delivering several impactful product releases. Led system teams to construct project plans, plan budgets, and craft product roadmaps while tracking OKRs and KPIs aligned with strategic objectives. Cultivate high-performing, globally distributed teams by mentoring talent, bridging skill gaps, and refining recruitment and onboarding processes.

- Steered teams to migrate monolith applications to microservices.
- Led geographically distributed teams from **Ukraine, Costa Rica, Brazil, Mexico, and USA** utilizing Miro and Microsoft Teams for collaboration.
- Championed SRE practices by defining SLIs, SLOs, Error Budget during feature discovery and architecture. Implemented monitoring and notification systems for early issue detection before customer reports bugs.
- Collaborated with business owners, compliance, risk, architecture, product, and engineering teams and ensured smooth delivery of the product to customers.
- Led technical discussions, architecture reviews, and ensured scalable and maintainable micro services are built.
- Spearheaded architecture and code reviews and mentorship sessions, fostering a culture of clean code, design for scalability across multiple teams.
- Gathered metrics, analysed for scope completion, maturity, and quality. Presented the details quarterly to leadership.
- Boosted API performance by 30% and reduced transactional database load by 10% through the elimination of data pre-loading, optimizing queries, and strategic indexing.
- Improved the accessibility and responsiveness of APIs for 95% of the customer base through rate-limiting a few overload customers and received appreciation from leadership and multiple customers.
- Boosted database performance by over 40% by creating and separating a read-only replica database for reporting application and introducing Redis caching strategy.
- Accelerated deployment efficiency by implementing robust on-demand processes, achieving sub-24-hour lead times, and maintaining change failure rate (CFR) below 10%.
- Elevated engineering quality and team productivity by overhauling development and testing practices, leading to faster feature delivery, improved code quality, and culture of frequent incremental releases.
- Built **Machine Learning** proof of concept to automate report generation for demand forecasting, and growth analytics, and building business features using code **GenAI** tools.

Fannie Mae, VA

Manager of Software Engineering

May 2012 – Jul 2022

Lead Pricing and Execution of Whole Loan, Servicing Marketplace, integration with DU, Early Funding, and MBS under the Capital Markets group, retiring multiple legacy applications. Spearheaded agile transformation by fostering collaborative development practices like mobbing and pair programming, boosting ownership, accountability, and code quality. Reinforced stakeholder engagement by facilitating regular meetings, communicating progress, addressing issues, and aligning business and technology goals to meet key performance indicators (KPIs) and objectives (OKRs).

- Rearchitected critical services, automated functional and non-functional test suites, improved deployment flexibility, and retired legacy applications saving hundreds of thousands of dollars.
- Led the transition from on-prem monolith legacy applications to AWS cloud. Spearheaded application architecture and design sessions.
- Optimized various processes by assessing risks, monitoring metrics, and recommending improvements, leading to reduced lead times.
- Enhanced team collaboration by introducing collective software development practices like pair-programming, mobbing, fostering cross-functional ownership, and improving confidence in application code, design, and architecture.
- Elevated development code quality and delivery standards by coaching teams on best engineering practices—TDD, BDD, CI/CD, and DevOps—achieving 90% code coverage and earning Beat Award for engineering excellence.
- Improved code quality by 50% through early issue detection by shifting testing left to the Unit, Functional, and Performance levels during the development phase.
- Accelerated automated functional test suite execution from one week to just four hours, enabling daily regression testing and significantly boosting development efficiency.
- Boosted deployment frequency from two months to two weeks by enabling teams to adopt feature-toggles and blue/green deployments.

- Saved significant production support hours by pioneering SRE practices to improve the mean time to detect issues (MTTD) and resolution (MTTR) by at least 60% through runbook automation, automated monitoring, and traceability.
- Enhanced team capabilities by identifying skill gaps and implementing targeted training, mentoring, and coaching programs to promote continuous learning and growth.

Booz Allen Hamilton, VA
Manager of Software Engineering

Feb 2010 – May 2012

Led a team of 10, guiding multiple products from inception to customer delivery. Established and enforced design and development best practices, setting quality standards and ensuring adherence through code reviews, test execution reports, and lessons learned. Collaborated with business teams and stakeholders to provide estimates and ensure on-time delivery of high-quality application functionality. Negotiated with other departments to secure budget approvals and additional engineering resources to meet growing customer demands. Recruited, onboarded, and mentored software engineering talent, accelerating new team members' integration and product adoption. Supervised cross-functional teams to deliver top-notch functionality for critical projects at Pension Benefit Guarantee Corp (PBGC) and National Science Foundation (NSF), ensuring alignment with organizational objectives and stakeholder expectations. Fostered team spirit during resolution of customer-reported production issues, addressing slow response times.

- Engineered high performance RESTful APIs, optimizing code efficiency to handle increased transaction volumes.
- Guided teams to improve application quality by directing them in implementing test engineering practices, coaching on Test Pyramid, Unit and Functional tests, and addressing daily regression needs for continuous delivery.
- Championed technical strategies for 5 Federal Government contract bids, synthesizing complex technical requirements into clear proposals, winning approval and securing \$25M+ in funding for key initiatives.

Additional Experience

Systems Architect, Compuware Corp, Madison, WI, USA – Feb 2004 to Jan 2010

Education

Master's degree in Computer Science and Management
Sri Venkateswara University, Tirupati, Andhra Pradesh, India

Certifications

AIML Post Graduate Certification, Purdue University – 12/2024
 Applied Gen AI Specialization Certification, Purdue University – 11/2025
 AWS Cloud Practitioner, Amazon – 06/2018
 Certified Professional Agile Coach, ICPACC – 04/2019
 SAFe 5 Program Consultant (SPC), Scaled Agile – 11/2021
 SAFe Product Owner & Product Manager – 05/2019

Technical Proficiency

Languages & Frameworks: Python, AIML, Java, Spring, Micro Services, React, Node.js, Express, Kafka.

Databases: Oracle, Postgres, MS SQL, DB2, Mongo DB.

Gen AI: CoPilot, Windsurf, Cursor, Claude Code, Replit.

ML & Data: Data Robot, Amazon Sage maker, Data Iku, AI Studio Rapid Miner, Hitachi Pentaho.

Cloud & DevOps: AWS, Gitlab, Gitlab Unleash, Jenkins, Team City, Kubernetes, Docker.

Monitoring & Collaboration: Dynatrace, Open Telemetry, Splunk, Jira, Confluence, Pluralsight Flow, Mural, Miro.