

Abhay Singh

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Work Experience:

Senior Solution Specialist, Deloitte

Feb 2022- Present

- **State of Illinois:** Integrated Disease Surveillance System: High-throughput rules engine to ingest, normalize, and validate bulk HL7 electronic lab reports, automating disease detection and case triage workflows at scale.
 - Secured 2nd place in Deloitte's 2024 AWS Innovation Challenge by building a solution using AWS Bedrock and Lambda to process eICR files via LLMs—also was presented at AWS re:Invent to leadership and clients.
 - Directed initiatives reducing operational delays by 20% through proactive risk and resource planning.
 - Acted as technical architect, designing system workflows and end-to-end data transformation logic.
 - Authored detailed architecture artifacts including UML class and sequence diagrams for system documentation, stakeholder reviews, and accelerated team onboarding.
 - Managed sprint planning items, backlog grooming, and resource allocation per priority to maintain project velocity and quality.
- **Centers for Disease Control and Prevention (CDC):** Led development of a Vaccine Administration Management System (VAMS) which is a public healthVaccine Administration platform, integrating data pipelines, Data Migration activities and reporting tools across federal and state partners under HIPAA compliance requirements.
 - Delivered \$50M in cost savings on large-scale government health platform rehost.
- **Meta:** Designed and created a self-guided onboarding module for an advertisement analysis and management tool

Software Engineer II, John Deere

Aug 2020- Feb 2022

- Engaged cross-functional teams in developing a procurement transformation initiative that resulted in \$1.5M in operational savings.
- Led cross-team collaboration efforts between engineering, procurement, and finance to translate business needs into technological roadmaps.
- Delivered multiple projects across multiple workstreams, ensuring internal compliance and alignment with business goals.
- Championed infrastructure process improvements, resulting in a 15% increase in team efficiency.
- Recognized with John Deere 2020 Vice President Award for driving Agile transformation.

Developer, University of Texas

Feb 2019- May 2020

- Solely led migration of on-prem legacy web servers to cloud-hosted instances, improving scalability and reliability.

Senior Software Engineer, Capgemini

Apr 2015 – July 2018

- Team lead for an automation initiative in the manufacturing plant operations to improve company-wide reporting.
- Developed & maintained supply chain inventory systems for increased accuracy and scheduling efficiency.

Education Qualification:

Master's of Science, Computer Science, University of Texas

Aug 2018-May 2020

Bachelor's of Engineering, Electronics & Telecommunications, University of Pune

Aug 2010 - May 2014

Skills

- **Technical Program Management:** Agile, Scrum, Waterfall
- **Cloud Infrastructure:** AWS, EC2, S3, Lambda, CloudFormation
- **Programming & Data:** Frontend, Backend, SQL, NoSQL, JSON, XML, microservices, REST APIs
- **Stakeholder Management:** Cross-functional team coordination
- **Project Management Tools:** JIRA, Confluence, Trello, GitHub, Azure DevOps, Rally, Slack
- **Risk Management:** Budgeting, Issue tracking, Documentation
- **AI & Automation:** AWS Bedrock, LLM integration, Workflow automation