

SNEHAL PATEL



SUMMARY

Experienced Full-Stack Developer and Technical Architect with over 20 years in application development, primarily in the financial and government sectors. Proven expertise in designing scalable architectures, modernizing legacy systems, and driving DevOps adoption. Adept with .NET, Angular, SQL, cloud environments, CI/CD pipelines, and infrastructure automation. Passionate about delivering robust, secure, and high-performance applications.

CORE COMPETENCIES

- **Frontend:** Angular 8+, React, HTML5, CSS3, JavaScript
- **Backend:** C#.NET, ASP.NET, .NET 8, Java Spring Boot, Web APIs
- **DevOps & Tools:** Jenkins, GitLab CI/CD, Ansible, OpenShift, Nexus, Artifactory, F5 Load Balancer
- **Databases:** SQL Server 2019, PostgreSQL, SSIS, SSRS
- **Monitoring:** Splunk, AppDynamics, MoogSoft, Grafana
- **Security:** Veracode, Nexus IQ, SonarQube
- **Project Tools:** JIRA, Confluence, ServiceNow, Remedy

CLEARANCE

- Active IRS MBI

EDUCATION

- B.S. Computer Science (2004)
Rutgers University, New Jersey

EXPERIENCE

Basecamp Consulting and Solutions - Reston, VA

Technical Lead / Architect (2024 - Current) - Client: Internal Revenue Service (IRS)

- Oversee the end-to-end development and deployment of 12 Java Spring Boot RESTful APIs, alongside the React-based frontend and PostgreSQL database, ensuring successful deployment within the IRS infrastructure on OpenShift.
- Design and create detailed architectural diagrams that illustrate the interactions between various system components, presenting these diagrams to stakeholders and clients for review and feedback.
- Provide strategic technical guidance and consultation to clients, addressing any queries or challenges related to system design, implementation, and optimization.
- Facilitate the seamless integration of Software-as-a-Service (SaaS) components within the broader IRS ecosystem, ensuring compatibility and performance standards are met.

- Contribute to the continuous improvement of development processes by maintaining and optimizing CI/CD pipelines using Jenkins with DevOps and DevSecOps teams. This includes configuring stages for build automation, code coverage analysis, security vulnerability scans, artifact deployment to Nexus, and the deployment of application containers to OpenShift.
- Design and implement comprehensive monitoring solutions using Splunk dashboards to track application logs, while also configuring AppDynamics for detailed application flow visibility and performance monitoring.
- Manage and oversee production releases, ensuring smooth and efficient deployment processes. Responsibilities include drafting and maintaining release notes, coordinating and facilitating testing phases, submitting and tracking change requests via ServiceNow, and executing production deployments while ensuring minimal downtime and system stability.
- Develop and implement comprehensive test scripts designed to automate the testing process across various stages of the software development lifecycle (SDLC). This includes the creation of scripts for unit testing, integration testing, system testing, and user acceptance testing (UAT) to ensure consistent quality assurance and seamless functionality throughout the development process.
- Deployment of applications across multiple clusters to ensure robust failover and failback mechanisms during disaster recovery scenarios. This process includes the configuration and implementation of F5 load balancers to facilitate high availability, traffic distribution, and seamless recovery of critical applications in the event of system failures, thereby enhancing the system's resilience and minimizing potential downtime.

Bank of New York Mellon - Jersey City, NJ

Senior Specialist, Full-Stack Developer (2017 - 2024)

- Conducted an architectural review of all newly implemented components within the Accounting platform, aiming to detect and address any instances of anti-patterns being employed.
- Deployed and configured 42 Windows 2022 servers in an isolated network segment within the datacenter.
- Modernized 3 legacy applications by phasing out outdated technologies and addressing over 600 vulnerabilities by leveraging tools such as Veracode, Nexus IQ, and SonarQube to systematically identify and rectify these issues.
- Foster an Agile DevOps culture across the development, product, and business teams.
- Architect and implement 10 GitLab CI/CD YAML files, establishing a pipeline for efficient source code builds and deployments, thus enhancing development and testing processes.
- Set up monitoring solutions including App Dynamics, Cloud Prober, Grafana, and MoogSoft, to swiftly identify and resolve production issues before they impact the operations team.
- Automate the deployment of binaries from Artifactory to multiple load-balanced Windows VMs by scripting 15 job templates using Ansible.
- Create .NET project builds utilizing Cake, PowerShell and Batch scripts.
- Utilize Confluence to comprehensively document the components and technologies utilized by the application development team.
- Coordinate seamless production releases in collaboration with the technology and operations teams by initiating a ServiceNow change request and executing the release process through Ansible and Git.

- Develop automated test cases for 4 applications, collaborating closely with the quality assurance team to eliminate manual testing during weekly maintenance windows.
- Participate biannually in Disaster Recovery exercises, employing 1Desk scripts to facilitate the failover and failback of 25 applications between data centers.

Specialist Developer (2015 - 2017)

- Developed a single-page application utilizing HTML 5, CSS 3, and Angular to cater to the Custody business line's requirements.
- Constructed C#.NET APIs hosted on the company's API gateway to facilitate client access.
- Streamlined the build process by leveraging Maven and deploying binary packages to Nexus.
- Moved source code repository from TFS to Git with a Jenkins continuous integration and deployment pipeline using PowerShell scripts and MSBuild.
- Maintained source code for 20 Git projects by reviewing and approving merge requests and creating release branches.
- Worked to implement the Agile methodology with JIRA defect tracking tool to create transparency amongst technology, QA testing, and line of business.
- Facilitated and participated in a daily Scrum with developers working on a Sprint and conducted backlog grooming sessions with the product team to promote stories for development.
- Interfaced with different technology groups to design, code, test and implement reusable components.

Lead Developer (2013 - 2015)

- Lead a team of developers and testers through the Software Development Life Cycle by using tools such as JIRA and PPM (Portfolio Project Management).
- Performed code review and handled collaboration meetings for application design and architecture.
- Maintained Windows servers and applications hosted on IIS with various teams within the datacenter.
- Worked with various lines of business to gather requirements and create technical documents for application development.
- Managed code release through different environments by using Team Foundation Server (TFS) for code repository and continuous integration.
- Gained excellent experience in project management by managing resources and expectations.

Distributed Application Developer III - IV (2008 - 2013)

- Developed various financial reports and statements in SSRS for the accounting operations team and clients.
- Setup reporting servers with SSRS and configured to host .rdl files.
- Worked with Visual Studio and .Net framework to make enhancements or fix defects on proprietary systems.
- Created ETL packages in SSIS to move processed data for the back-end database to a data warehouse for archive and reporting.

- Worked on SQL Server by creating and maintaining tables, views, functions and stored procedures.
- Developed and used WCF services to communicate between many applications within the Alternative Investment Services business.

Distributed Application Developer I - II (2004 - 2008)

- Created customized NAV reports using Visual FoxPro, Lotus Spreadsheets, and Crystal Reports.
- Automated data transmissions from services such as Bloomberg, Reuters and other broker feeds in order to minimize or eliminate manual inputs for midday and end of day prices.
- Gained excellent knowledge in the equities, futures, and foreign exchange markets while supporting a single manager accounting platform.
- Supported a trade capture system that handled over 50 thousand trades per day using MQ.
- Developed break reports for the reconciliations team to identify the adjustments that need to be made.
- Worked on creating an application to read client email boxes to store information for archive.