Mansi Zope

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Technical Skills

Languages & Frameworks: Java, Python, SQL, TypeScript, JavaScript, Spring Boot, JUnit, Node.js, Angular
APIs & Security: REST, SOAP, SAML, OIDC, OAuth
Cloud & DevOps: Kubernetes, AWS, Azure, Docker, Helm, Jenkins, Git, Terraform, HashiCorp Vault
Database: MySQL, PostgreSQL, MongoDB, Oracle Application Server, PL/SQL, Redis

Work Experience

Software Engineer May 2023 - Present

Fidelity Investments

- Streamlined enterprise security compliance by implementing Azure AD authentication with OIDC workflow, resulting in a significant reduction of unauthorized access issues and meeting **100%** of corporate security standards
- Built a SSO troubleshooting chatbot using AWS Lex, leveraging machine learning to automate issue resolution, which improved query resolution time by 35% and won the "Most Business Value" award for its impact
- Migrated a critical production application from AWS ECS to EKS, utilizing Kubernetes for auto-scaling and resource management, resulting in a 40% performance boost and improved fault tolerance
- Improved system observability by integrating Splunk logs with Datadog dashboards, reducing mean time to detection (MTTD) by 40% and accelerating incident resolution by 30%
- Implemented Role-Based Access Control (RBAC) in SSO management application using Spring Boot and Angular, streamlining user role management and access control, resulting in a 25% reduction in security related incidents
- Implemented audit logging mechanisms for REST APIs in Spring Boot, integrating centralized logging and secure storage, enhancing traceability and accountability

Software Engineer Intern Jul. 2022 - Dec. 2022

Fidelity Investments

- Developed Helm charts for packaging and versioning Kubernetes applications, facilitating easy deployment, rollback, and scalability, resulting in a 30% increase in development velocity
- Integrated HashiCorp Vault for secrets management, ensuring secure storage and dynamic retrieval of sensitive credentials, reducing security vulnerabilities by 40%
- Implemented 15+ REST APIs in Spring Boot to accelerate customer transaction processing by automating key operations, resulting in a 20% reduction in manual efforts
- Optimized REST APIs by implementing data caching with Redis in distributed application, reducing database load and enhancing response times, resulting in a 25% faster computation time
- Automated Kubernetes deployments using Jenkins CI/CD, integrating Docker for containerization, streamlining the pipeline and cutting deployment time by 50% resulting in faster feature delivery and improved system reliability

Software Engineer Feb. 2018 – Aug. 2021

KPIT Technologies Ltd.

- Developed 5+ Eclipse-RCP plugins using Java and SWT for an integrated subsystem, automating test case creation, which reduced authoring time from 3 to 12 test cases per person per day, significantly boosting team productivity
- Built a software solution to analyze Git commits by leveraging Python and PostgreSQL procedures, which provided actionable insights into commit patterns and improved code review efficiency by 30%
- Developed a full-stack web application using React, PostgreSQL, NodeJS, and Python to track employee productivity, incorporating gamification elements like performance scores and achievement badges, which increased engagement, provided individual insights, and improved team productivity by 40%

Education

Northeastern University Boston, US

Master of Science, Information Systems (GPA - 3.8) *Sep. 2021 – May 2023*

Coursework: Data Science Engineering Methods, Web Development Tools and Methods, Design Patterns, Advanced Big Data Applications and Indexing Techniques, Agile Software Development

Cummins College of Engineering for Women Pune, IND

Bachelor of Engineering, Computer Engineering *May 2013 – Jun. 2017*