Bhishman Desai

Solutions Architect

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Portfolio

Blog

Areas of Expertise

Angular - React - Next Js - Java - Spring Boot - Node Js (Express) - Django - SQL - PostgreSQL - MongoDB - DynamoDB - Redis - Neo4j - Kubernetes - AWS - GCP - Azure - IaC (Terraform & Cloudformation)

Professional Experience

Full-Stack DevOps Engineer Puppet Academy

Halifax, NS May 2024 - Present

- Technologies used: Next.js, AWS, Terraform, Amazon EC2, GitLab runners
- Developed the frontend of Puppet Academy using Next.js, creating a responsive and engaging UI for the performance insight dashboard, leading to a **25%** increase in user engagement.
- Automated AWS infrastructure provisioning using Terraform, which reduced manual setup time, ensuring version control and scalability through Infrastructure as Code (IaC).
- Implemented CI/CD pipelines using GitLab runners on Amazon EC2, streamlining the deployment process, resulting in a **40%** reduction in deployment time and faster feature releases.
- Collaborated with cross-functional teams to manage a multi-code repository, improving coordination through efficient folder structuring and version control.
- Managed and scaled the Puppet Academy website with auto-scaling groups and load balancers, achieving 99.9% uptime during peak usage periods.

Software Engineer BosLeo

India Jan. 2023 – Jul. 2023

- Technologies used: TypeScript, Angular, REST APIs, Git
- Developed a Healthcare Information System UI using Angular and TypeScript, improving system's user experience and reducing backend HTTP calls by **30%**.
- Conducted and participated in code reviews, receiving feedback that improved code quality and ensured adherence to industry best practices.
- Collaborated with a team of over 50 engineers to integrate front-end interfaces with backend responses, improving data processing efficiency significantly.
- Enhanced system documentation, which increased project onboarding and knowledge transfer efficiency for new team members.
- Utilized Git boards for progress tracking to manage and visualize project progress and team collaboration, resulting in improved codebase quality, streamlined project management, and enhanced team productivity.

Software Engineer Infogain

India Jul. 2021 – Jan. 2023

- Technologies used: Java, SQL, Angular, React, Cloud Computing
- Completed comprehensive autodidact training as a software engineer, gaining proficiency in SQL, Java, Angular, React, Cloud Computing, and Blockchain, leading to significant improvement in my technical skillset.
- Contributed to the development of a support portal for Riverbed, adding new features using Java and Angular, which enhanced functionality and improved user experience.
- Interacted directly with clients to gather and understand their requirements, ensuring effective translation into actionable development tasks, increasing the overall client satisfaction.
- Maintained clear and effective communication with clients, addressing their concerns and providing timely updates on project progress, which improved client relationship management.
- Demonstrated strong problem-solving skills by identifying and resolving critical bugs and code smells.

Education

Master of Applied Computer Science (MACS) Dalhousie University Halifax, NS Sep. 2023 – Present Relevant Courses: SDC, Adv. Topics in Software Development, Data Management, Warehousing & Analytics, Adv. Topic in Cloud Computing, Adv. Cloud Architecting, Adv. Topics in Web Development

Bachelor of Technology in Information Technology SVKM's NMIMS University India Sep. 2017 – Mar. 2021 Relevant Courses: Operating System, Computer Organization and Architecture, Software Engineering, Cloud Computing, Research Methodology

Academic Projects

Full Stack Engineer Thrift Harbour

- Developed an e-commerce platform to ensure accurate pricing and build trust among buyers, sellers, and moderators
 by implementing a moderator approval system for product listings achieving 83% test coverage by following SOLID
 principles and removing code smells.
- Enhanced my understanding of Code smells and Test coverage, self-learning through official documentation and community resources, which streamlined the deployment process.

Java Developer Lightweight DBMS

- Built a custom lightweight DBMS supporting basic DDL and DML commands, along with transaction support and ensured ACID properties.
- Self-taught database management concepts through independent research, which deepened my understanding of database management and influenced the system's design and development.

Open Source Contribution

Angular Developer primeng

- **Contribution**: Investigated and resolved an issue where keyboard shortcuts in TextArea components were non-functional when used inside Accordion panels. This involved debugging the component's event handling and ensuring that focus and key event listeners were correctly managed within the Accordion's context.
- **Solution**: Made the requested changes and successfully got my merge request approved and merged. Additionally, I documented my experience and insights in my blog post.

Awards, Achievements and Volunteering

- Received the **Citizenship Award** from Dalhousie Faculty of Computer Science for exceptional contributions to community building, reliability, motivation, and academic excellence.
- As a Student Ambassador at the Digital Engagement Centre, Advancement, Dalhousie University, successfully raised \$65,000 for Dalhousie University.
- Volunteered for the Food and Security Project on Giving Tuesday. This role involved coordinating collection efforts
 and ensuring that collected food reached the people who needed it most.
- Volunteered for the NASA Space App Challenge event organized by the Shift Key Lab. This involved registering
 each team for the event, ensuring a smooth and organized process for all participants.
- Volunteered at DevOpsDays Halifax 2024, assisting with the registration desk, logistic support, and photography, while engaging with industry professionals to enhance my DevOps knowledge and expand my network.

Publications

- "Scaling Depression Level through Facial Image Processing and Social Media Analysis", Communication and Intelligent Systems: Proceedings of ICCIS 2020.
- "Image Filtering Techniques, Algorithm and Applications", GIS Science Journal, 2020.