

# Bhishman Desai

## Solutions Architect

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🌐 Portfolio

✍ Blog

### Areas of Expertise

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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

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#### 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

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**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

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**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

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**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

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- 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

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- **"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.