Bhishman Desai
Software Developer

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Areas of Expertise

Angular - React - Next - Java Spring Boot - Express - Django - Servlets - SQL - PostgreSQL - MongoDB - Redis - Neo4j - Kubernetes - AWS - IaC

Professional Experience

Full-Stack DevOps Engineer *Puppet Academy*   **Halifax, NS** *May 2024 – Present*

- **Technologies used:** Next.js, AWS Amplify, Terraform, Amazon EC2, GitLab runners

- Developed Terraform scripts for setting up backend infrastructure on AWS, automating the provisioning and management of AWS resources needed for the backend, ensuring IaC to maintain version control and reproducibility, which reduced manual setup time, increased infrastructure reliability, and facilitated scalable deployments.

- Developed the frontend of the Puppet Academy application using Next.js, creating an engaging and responsive user interface for the performance insight dashboard.

- Developed CI/CD pipeline for the frontend on AWS Amplify which streamlined deployment workflows, reduced manual errors, and increased development speed.

- Developed CI/CD pipeline for the backend using GitLab runners on EC2, configuring GitLab runners on Amazon EC2 instances to manage backend deployment and implementing automated testing and deployment for the Go Lang backend code, resulting in improved deployment efficiency and consistency, leading to faster feature releases.

- Managed and scaled Puppet Academy's company website hosted on EC2 instances with auto-scaling groups and load balancers, ensuring high availability and performance during peak usage periods.

Software Engineer *BosLeo*   **India** *Jan. 2023 – Jul. 2023*

- **Technologies used:** Angular, Typescript, Jira

- Developed a Healthcare Information System with a focus on patient data and information.

- Demonstrated expertise in implementing user interfaces using TypeScript and the Angular framework, ensuring harmonious interaction between front-end interfaces and backend responses.

- Achieved a **30%** reduction in HTTP calls to the backend by enhancing our system's UI practices.

- Conducted code reviews and received valuable feedback on coding standards and best practices.

- Maintained clear and organized documentation to aid in project understanding and future reference.

Software Engineer *Infogain*   **India** *Jul. 2021 – Jan. 2023*

- **Technologies used:** Springboot, JAVA, JQuery, MySQL, React, Angular, Web3

- Completed comprehensive training as a software engineer trainee, gaining proficiency in a wide range of technologies including SQL, Java, Angular, React, Cloud computing, Blockchain, and Testing.

- Assigned to the Riverbed support project, where I excelled as a Java developer, contributing to the development and enhancement of their support portal.

- Successfully added new features to the support portal, improving its functionality and user experience.

- Demonstrated strong problem-solving skills by actively identifying and fixing bugs, ensuring the smooth operation of the support portal, and minimizing downtime for clients.

- Interacted directly with clients to gather and understand their requirements, ensuring that their needs were effectively translated into actionable development tasks.

- Maintained clear and effective communication with clients, addressing their concerns and providing timely updates on project progress.

Education

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

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

Academic Projects

Java Developer *Lightweight DBMS*
- Developed a custom lightweight database management system supporting simple query selection and retrieval, divided into parsing, executing, and fetching processes, ensuring efficient data handling.
- Implemented support for DDL and DML commands such as CREATE TABLE, CREATE USER, SELECT, and INSERT, enhancing the system's functionality and usability for basic database operations.

Cloud Engineer *ExtractGen*
- Developed a system to extract text from multi-page PDF files and store it as key-value pairs in a CSV file using AWS Lambda, Amazon Textract, and AWS SNS, automating the conversion of unstructured data to structured formats.
- Implemented an end-to-end workflow with user interaction on an EC2-hosted frontend, API Gateway for file uploads, S3 for storage, and Lambda functions for text extraction and CSV file generation, ensuring seamless data processing and user experience.

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. Engaged with alumni to gather gifts and funds for the university. This role involved fostering relationships with past students and encouraging their continued support for the institution.
- 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.