DESHNA ASHOK SHAH

857 -869-1147 | shah.des@northeastern.edu | https://www.linkedin.com/in/deshna-shah-48031a147/ | Github

EDUCATION

NORTHEASTERN UNIVERSITY Boston, MA
Master of Science, Computer Software Engineering Expected - May 2025
Relevant Coursework: Web tools & Development, Database Management System & Design, Application Engineering Development

MUMBAI UNIVERSITY Mumbai, India
Bachelor of Engineering in Computer May 2021

WORK EXPERIENCE

JAIN JAGRUTI CENTER Boston, USA
Software Development volunteer October 2022 – February 2024

- Developed a global student collaboration platform for over 10,000 students, enhancing front-end systems for e-commerce applications with a focus on reusability and efficiency. Utilized React.js for dynamic user interfaces, HTML and CSS for structure and styling, and JavaScript for interactive functionality
- Collaborated with cross-functional teams to integrate Java, Springboot, NodeJS, and Rest APIs into the platform, aligning discussion and seminar features with trends in foreign education
- Managed CI/CD processes using Git, GitHub, Docker, and Jenkins, enhancing project efficiency and reducing errors in the development lifecycle.
- Designed visually appealing user interfaces with Figma Designs and React, ensuring a seamless user experience across devices

TATA CONSULTANCY SERVICES Mumbai, INDIA
Fullstack Associate Developer June 2021 – June 2022

- Employed Java, Hibernate, and Struts to develop and launch a Stock Market Mobile API for Android and iOS, enhancing scalability, reliability, security, and performance, utilizing problem-solving skills, advanced techniques, and methodologies
- Integrated Oracle SQL, NOSQL, AES & DES encryption to develop advanced security features for NSDL apps, including 2-step authentication, key hashing for OTP-based Login, end-to-end Encryption, and E-voting
- Utilized interpersonal skills in the Software Development life cycle, improving onboarding efficiency by 80% and effectively identifying critical bugs.
- Resolved over 40 client/customer service issues, completed bug fixing using A/B testing, and documented REST APIs in Swagger

TECHNICAL SKILLS

Programming Languages: Java, Python, HCL, SQL, Dart, C, C++, C#, Perl, UML
Web Technologies: Spring Boot, Django, HTML, JavaScript, ES6, React, Redux, Node.js, CSS, Bootstrap, jQuery, Socket.io, MaterialU, Spring Framework, Spring Boot, Spring MVC
Tools & IDE: Unix, Linux, Git, Adobe InDesign, Eclipse, Figma, Postman, Azure, AWS (CloudWatch, Autoscaling, Load
Database: Oracle, PL/SQL, MongoDB, JSON, PostgreSQL, Azure Cosmos DB, Hibernate, JDBC, BIOS and Firmware

ACADEMIC PROJECTS

WEB DEVELOPMENT TOOLS & TECHNOLOGY Boston, MA
Volunteering Recruiting System January 2024- April 2024

- Employed the DAO pattern in Hibernate for robust CRUD operations on volunteer and NGO entities, reducing code duplication by 95%
- Developed an algorithm using Hibernate mappings to efficiently match volunteers based on skills and location, increasing placements by 30%
- Implemented secure user authentication and authorization with Spring Boot's Spring Security, reducing vulnerabilities by 98%

DATABASE MANAGEMENT DESIGN & DEVELOPMENT Boston, MA
Boston Transportation System *September* 2023- December 2023

- Led the development of an advanced Boston Transportation System, integrating T-SQL functionalities such as Sequences, Functions, Packages, Procedures, Triggers, and Views.
- Using innovative structured query techniques, automated card balance updates, financial management, and transportation operations with real-time disruption alerts.
- Implemented a query model that reduced the time to initialize the database instance by 73% and increased the overall efficiency.

COMPUTER ENGINEERING Boston, MA
Image-based Plant Diseases Detection *January 2021- June 2021*

- Developed responsive Web and Android user interfaces using Flask and Android to identify types of plants (Cherry, Apple, and Grape) and diseases of plants based on leaves using Deep Learning and Machine Learning
- Utilized Convolutional Neural Networks (CNN), Random Forest Detectors (RF), and DenseNet for image processing, achieving an accuracy of 98% over 10,000 test cases.
- Published research paper at ICDICI 2021 | 16-17 July 2021, Springer.