Shreya Sisodiya

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EDUCATION

NORTHEASTERN UNIVERSITY, BOSTON, MA **May 2024**

Master of Science, Information Systems

Coursework: Application Engineering/Development, DBMS, Program Structures/Algorithms, Advanced big-data

SAVITRIBAI PHULE PUNE UNIVERSITY, INDIA **June 2021**

Bachelor of Engineering, Computer Engineering

SKILLS

Programming Languages:	Java, JavaScript, TypeScript, Python
Backend Web Development:	Spring Boot, NodeJs, RESTful APIs, SOAP, Express.js
Front-end Web Development:	HTML, CSS, Bootstrap , REST API, AJAX, JSON, jQuery, ReactJs, Redux
Databases:	MySQL, PostgreSQL; **NoSQL:** MongoDB, Redis
Cloud and OS:	Azure AKS, Kubernetes, Docker, Oracle, IBM, Windows, macOS, Linux
Tools and Platforms:	Git, GitHub, GitLab CI/CD, Postman, Selenium, Power BI, Tableau, Jira, Figma, Jenkins

WORK EXPERIENCE

Graduate Teaching Assistant (Web Design and User Experience Engineering) **September 2023 - May 2024**

Northeastern University, United States

- Conducted labs, reviewed and solved JavaScript, Node, and React code, and provided 1:1 tutoring for 180+ students
- Designed assignments, organized coding contests, resulting in a 15% increase in grades compared to previous semester

Software Development Engineer **September 2021 - August 2022**

Dynaxcel, India

- Revamped legacy UI to React web app, enhancing automation management, and boosting user adoption by **40%**
- Optimized legacy code, **improving its structure & maintainability by 40%** by refactoring design systems and patterns
- Programmed APIs using **Java** and **Spring** to fetch **MongoDB** data for frontend and documentated APIs with Swagger
- Increased **bug-fixing efficiency by 60%** through automated testing tools (**Selenium, JUnit**) and analysed logs to find root causes for bugs and in-production monitoring

Software Development Engineer - Intern **May 2019 - August 2019**

Astora Syndicate, India

- Developed dynamic user interfaces with **ReactJS**, enhancing the web application's interactivity and user engagement, leading to a **30% increase in user session time**
- Achieved over **90% unit and integration test coverage** for six modules adopting Karma and Jasmine test framework
- Successfully integrated RESTful APIs into a web application, resulting in a **18%** improvement in responsiveness

PROJECTS

Medical Plan RESTful Application **October 2023 – November 2023**

Advanced Big-Data Applications and Indexing Technique Capstone Project

- Developed **7 REST APIs** using **SpringBoot** with support for all **HTTP methods**, extending the queuing mechanism using **RabbitMQ** and indexing object data in **ElasticSearch**
- Implemented **JWT Token** authentication with **security encryption-RS 256** algorithm & **Oauth 2.0** for securing the APIs
- Built **visualization** using **Kibana Console** by implementing search queries on indexed data

Arcade Mania **February 2023 – April 2023**

Web Dev and User Experience Engineering Capstone Project

- Achieved average **server response time of 100ms** by utilizing **Node.js and Express**, enhancing application's scalability
- Enhanced reusability and maintainability by developing **React components**, applying web development best practices
- Optimized overall performance by implementing **Redux, local storage, and session management** for faster interactions
- Streamlined & improved security by integrating Google authentication; designing secure **RESTful APIs with Express.js**

Interlaced Ventures **November 2022 - December 2022**

Application Engineering Dev Capstone Project

- Spearheaded a team to develop a dynamic ecosystem app accommodating diverse users and access levels, managing over 200 users and 1,000 orders with **Java and MySQL** for data integrity
- Ensured efficient data caching and accessibility by fetching real-time data from an SQL database, storing it efficiently, and utilizing stored procedures, functions, and triggers to manage data flow and integrity
- Implemented testing features to prevent duplicate accounts and ensure unique IDs and user access rights, enhancing system security and user management
- Attained **97% code coverage** and minimized potential defects by rigorously writing JUnit tests for functionality testing

PUBLICATIONS

ANOMALOUS MOTION IDENTIFICATION FOR BANK SURVEILLANCE (link) **September 2021**

International Journal for Scientific Research and Development

- Surveyed 15+ research papers on gait and posture recognition, assimilated 5 libraries to integrate Kinect SDK, and implemented K-Nearest Neighbors algorithm for data analysis on a 2000+ dataset
- Developed a logistic regression model for posture recognition and achieved **82.6% accuracy using the DTW Algorithm**