

Darshan Jayeshbhai Shah

LinkedIn Portfolio Github

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EDUCATION

- **Khoury College of Computer Science - Northeastern University** Boston, MA
Master of Science in Computer Science; GPA: 4.0/4.0 Sep 2023 – May 2025
Courses: *Programming Design Paradigm, Information Retrieval, Web Development, Algorithms*
- **Gujarat Technological University** Ahmedabad, India
Bachelor of Engineering in Computer Engineering; GPA: 8.78/10 Aug 2015 – May 2019
Courses: *Data Structures, OOP, Artificial Intelligence, Data Mining, Database Management Systems*

TECHNICAL KNOWLEDGE

Skills:	Full Stack Development, Backend and Frontend Development, Test-driven Development, OOP, Design Patterns, RESTful APIs, Software Architecture, System Design
Languages and Frameworks:	Java, Python, SQL, JavaScript, Typescript, HTML5, CSS3, Spring Boot, Node.js, React.js, Shell script, Express.js, Angular.js JQuery, FastAPI, Django, Next.js, Bash, Vue.js
Testing and Tools:	Docker, Jenkins, Git, Kafka, RabbitMQ, Jira, Eclipse, Spring Tool Suite, VS Code, IntelliJ, JUnit, Bootstrap, Postman, Redux, Windows, Linux, Selenium, Github, Gitab, Bitbucket
Database and Cloud:	MongoDB, SQL Server, PostgreSQL, Elasticsearch, AWS, MySQL, Oracle, GCP, Firebase

PROFESSIONAL EXPERIENCE

- **MyTradeZone** Ahmedabad, India
Dec 2020 – Aug 2023
 - Contributed to the transformation of a legacy **monolithic** system to a **microservices** architecture utilizing **Spring Boot** and **React JS**, achieving a **30%** improvement in system efficiency and scalability.
 - Collaborated with product leads using **Kanban board** to design and prioritize features, driving efficient **project execution** and playing a key role in **sprint planning** and quarterly goal-setting for the team.
 - Streamlined **front-end development** by assembling reusable **React UI** components, blending custom and existing Node Package Manager and **Material UI** elements, enhancing UI consistency and accelerating development by **20%**.
 - Crafted **MongoDB scripts** to resolve discrepancies in address data for over **100,000** records in a legacy database, ensuring **85%** data consistency with new-generation systems and facilitating seamless integration.
 - Spearheaded the end-to-end development of pivotal product features, including **networking groups**, **targeted advertisement** and **user timeline** functionalities, leading to a **30%** surge in user engagement and a **25%** increase in daily platform activity.
 - Established **key performance indicators (KPIs)** and metrics to aggregate business intelligence data from various **back-end services** and databases, resulting in a **40%** reduction in decision-making time.
 - Identified and resolved over **80 critical backend and frontend bugs**, resulting in a **20%** increase in user registration flow completion and significantly enhancing overall user experience and platform growth.
- **Sculptsoft Pvt Ltd** Ahmedabad, India
May 2019 – Dec 2020
 - Engineered and deployed **RESTful APIs** for mobile platforms using **Spring Boot**, reducing integration time by 25%.
 - Facilitated extensive collaboration within the team to tackle complex and challenging **business problems** effectively.
 - Incorporated **design patterns** to improve code reusability by **30%**, streamlining the development process.
 - Conducted **code reviews** and developed **unit tests** as well as **integration tests** using **JUnit**.
 - Utilized **Kafka** for real-time data ingestion and processing, providing timely insights and supporting decision-making processes.
 - Implemented a versatile **notification system** for **10,000+** users, overseeing **50+** notification types across various channels.

PROJECTS

- **Kanbas Web Application** Jan 2024 – Apr 2024
 - Developed a clone of the Canvas application using **React.js**, **Typescript**, **JavaScript**, **HTML**, **CSS**, **MongoDB**, and **Node.js**.
- **Image Manipulation & Enhancement** Oct 2023 – Dec 2023
 - Developed a **JavaFX** image editor, adhering to **MVC architecture** and **design patterns** (including **Command** and **Factory**), ensuring **SOLID principles** and comprehensive **JUnit test** coverage.
 - Ensured stable performance, resolving **94%** of errors and testing with **Test-Driven Development** for over **80%** test coverage.
- **Multi-Modal Search Engine** Nov 2023 – Dec 2023
 - Developed a **multi-modal search engine** for information retrieval, prioritizing movie-related queries using the IMDB dataset.
 - Applied advanced retrieval techniques in **Python** for comprehensive results and user-specific queries.
- **Twitter Bot** May 2021 – Jun 2021
 - Designed and deployed a Twitter bot on Heroku utilizing **Node.js**, **MongoDB**, and **Twitter SDK**, posting two tweets daily.