Mugdha Anil Sutar

+1 (945)-233-5189 | Dallas, TX | mugdha.sutar99@gmail.com | LinkedIn | GitHub | Portfolio |

EDUCATION

The University of Texas at Dallas   **Aug 2023 – May 2025**
Master of Science, Computer Science, GPA 4.0
Savitribai Phule Pune University   **Aug 2017 - May 2021**
Bachelor of Engineering in Information Technology, GPA 9.21

TECHNICAL SKILLS

Programming Languages: Java, Python, JavaScript, TypeScript, C++
Databases: MySQL, Oracle, SQL Server, PL/SQL, Mongo DB
Frameworks: HTML, CSS, Bootstrap, Django, React JS, Node JS, Express JS, Docker, Kubernetes, Hadoop, PySpark
Others: Git, Tomcat, Maven, VSCode, Agile, AWS, Leetcode, Linux, Tailwind CSS

PROFESSIONAL EXPERIENCE

Newgen Software Technologies Ltd., Mumbai   **Jun 2021 - Jun 2023**
Software Engineer
- Automated Business and Loan Life Cycle Management processes for three major banks by designing their workflow, integrating external APIs and using Socket utilities for data communication
- Implemented 50 change requests, configured front-end and back-end, and deployed applications using JBoss, Websphere, solving more than 200 bugs guaranteeing 100% bug resolution
- Conducted regression and system-level testing which led to quality deployment reducing the processing time

Virtusa Consulting Services Pvt   **Apr 2020 – May 2021**
Full Stack Developer Intern
- Independently designed and developed two full stack web applications using Java framework each with more than 10,000 lines of code, and completed extensive training in Java, JSP, Servlets, Angular and Spring
- Assisted colleagues in their projects, conducted meetings to resolve problems and bugs

Knowledge Solutions India   **May 2020 - Jun 2020**
Data Science Project Intern
- Analyzed datasets and developed a heart disease prediction model with an accuracy rate of 85%
- Implemented Python, R and Data Science models for implementation and visualization

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ACADEMIC PROJECTS

DavisBase | DavisBase GitHub   **Nov 2023 – Dec 2023**
- A command line-based database management engine that is based on file-per-table variation in the SQLite file format. Each database table and index are stored as a separate file, which is divided into fixed size pages
- Implemented SQL commands such as Create, Insert, Select, Where, Delete, Drop, Show and Update along with Primary Key, Not Null and Unique constraints
- Physical storage is managed by the implementation of B trees where each node of the B Tree is a page of the file

Tic Tac Toe | Tic Tac Toe GitHub   **Dec 2023 – Dec 2023**
- A web-based tic tac toe game using React framework which maintains users' scores and logs of moves that they have played.
- Has additional features like saving users' names and giving out appropriate messages.

Depression Fighting Chatbot | Research Paper | Mitra GitHub   **Nov 2020 – Mar 2021**
- Successfully designed and developed 'Mitra', a web application using Django that served as a comprehensive mental health platform, offering self-assessment tools and virtual therapies to support users' well-being
- Developed a RASA chatbot for user assistance and crafted visual tracking tools for user self-improvement
- Used SQL Server to build a database, perform CRUD operations and data transfer from front-end to back-end

Mall Management Application   **Sep 2020 – May 2021**
- Constructed a multi-user application using Java framework catering to both the mall owner and the staff's needs
- Introduced features: staff oversight, efficient space management, rental processes and complaint handling
- Used greedy approach to optimize revenue by enhanced space utilization and reduced downtime
- Created pie charts, bar graphs by using Matplotlib and Plotly to illustrate space and revenue allocation