Shruti Tambe

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EDUCATION

M.S. Information Systems, Northeastern University, Boston, MA (GPA 3.57/4.0)　　　**Sept 2022-Expected May 2024**

Relevant Coursework: Algorithms, Database Management, Application Development, Data Science, Neural Networks, Web Design and User Experience, Big Data

B.E. Computer Engineering, SIES, Mumbai University, India (GPA 3.65/4.0)　　　**August 2017-June 2021**

Relevant Coursework: Web Development, Data Structures, Cloud Computing, Object-Oriented Programming

SKILLS

Programming Languages: Python, Java, C++, C, JavaScript, SQL

Web Technologies: React, Angular, Express.js, Node.js, HTML5, CSS, REST API

Databases: MySQL, Oracle SQL, PostgreSQL, MongoDB

Tools and Frameworks: VS code, GitHub, AWS, Eclipse, Docker, Jupyter Notebooks

WORK EXPERIENCE

Software Engineer, Newgen Software - Mumbai, India　　　**June 2021-May 2022**

- Developed service-oriented web application using Java J2EE and Java Spring MVC for Yes Bank, ensuring secure and efficient transactions
- Automated SQL selection and retrieval, optimizing query performance by 10%
- Contributed to software development life cycle, employed REST based web services tailored to client requirements
- Implemented optimizations for developments of CRs i.e. new features, integrating Angular, HTML5, CSS3, to engineer intuitive interfaces for a more engaging and user-friendly experience
- Optimized process specific .war files of KYC document verification, designed forms, incorporated JavaScript for dynamic validations, modified existing modules resulting in enhanced form functionality
- Collaborated with cross-functional teams, and stakeholders, documented work, support for production, bug fixing and proactive problem solving of complex software issues efficiently

PROJECTS

Fitness Tracker – FitLife

- Built a website employing React, Express.js, MongoDB, integrated user registrations, sharing functionalities, updates, and challenges among users
- Collaborated in a team of three to engineer and deliver the website, resulting in average page load time less than 3s, ensuring responsive user interface
- Implemented authentication and authorization to ensure secure access to app's features

BERT-Powered Resume Analysis App

- Engineered a Streamlit application empowered by BERT (Bidirectional Encoder Representations from Transformers) for precise question-answering, offering users nuanced insights into their resumes
- Designed an interactive platform that seamlessly integrates BERT's contextual understanding, allowing users to upload resumes, receive targeted feedback, and rate satisfaction intuitively

Attention Span Detection in online classroom

- Developed an advanced video conferencing web app with attention scoring using OpenCV, Dlib, and PoseNet, ensuring real-time monitoring of student engagement during online classes
- Spearheaded integration of PyAudio for Audio Processing, enhanced attention span detection by analyzing background noise, utilized Keras and TensorFlow for Image Processing to determine students' body orientation

Organ Transplantation System

- Collaborated with a team of two to develop a Java Swing web application serving as a centralized system to provide robust transplantation system and keep users up to date about their health reports
- Designed and implemented users, role-based login systems, appointment booking, inventory management of organs and real-time processing with status updates, leveraged DB4O database for backend

LEADERSHIP EXPERIENCE

Smart India Hackathon Finalists 2020 | Technical Event Head SIES | Member of Computer Society of India (CSI)