SHARAD TEMBHURNE

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EDUCATION

NYU Tandon School of Engineering, Brooklyn, NY   **August 2022 - December 2023**
Master of Science in Computer Engineering   GPA: 3.89/4
Relevant Coursework: Data Structures and Algorithms, Machine Learning, Big Data, Deep Learning
Maharashtra Institute of Technology, Pune, India   **July 2015 - May 2019**
Bachelor of Engineering in Electronics and Telecommunication   GPA: 7.84/10

SKILLS

Programming Languages: Python, Java, HTML, CSS, JavaScript, OTX, C/C++
Frameworks and Databases: React, Flask, MongoDB, SQL, PostgreSQL
Tools: Docker, Figma, Git, JIRA, Spark, CANoe, OTX Studio, Raspberry Pi

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EXPERIENCE

KPIT Technologies, Columbus, IN - Software Engineer Intern   **June 2023 - Present**
- Independently designed a user-friendly Python-based GUI for a cmd program using the PyQt5 library.
- Developed OTX scripts to test special features and diagnostic tests on engine control modules.
- Engaged in frequent communication and collaboration with the UX team to ensure effective integration.
- Performing unit testing using Raspberry Pi to validate the quality and efficiency of developed software.

KPIT Technologies, Pune - Software Engineer   **November 2019 - July 2022**
- Developed OTX scripts by following ISO 13209 to test the diagnostics functionality of microcontrollers.
- Developed Java codebase to automate the generation of the OTX scripts using Spring Tools Suite IDE.
- Developed various React components from scratch with minimal software requirement specifications

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PROJECTS

Personal Portfolio   **September 2023 - October 2023**
- Designed and developed an interactive portfolio website using React, CSS, and Three-JS.
- Designed and implemented interactive 3D graphics on the website using spline-based modeling.
- Employed responsive web design techniques to ensure seamless compatibility on various screen sizes.

Doraemon Gadget Web Catalog   **March 2023 - April 2023**
- Designed an interactive web catalog using HTML, CSS, and JavaScript for users to browse and explore.
- Implement advanced design features, such as infinite scrolling and quick search for effortless navigation.
- Ensured a seamless experience by implementing a responsive design that accommodates all screen sizes.

Chess: Visualization and Insights   **March 2023 - May 2023**
- Collaborated with the team in migrating the chess game and player database from PGN to MongoDB.
- Developed Flask backend with Jupyter Notebooks for data processing, visualization, and analysis.
- Created interactive and dynamic user interface using HTML, CSS, and JavaScript to visualize gameplay.

Swarm Robots   **January 2018 - April 2018**
- Designed prototypes and built multiple Swarm Robots which work collectively using ATMega32P.
- Developed an Android app for communication between the mobile and master robot using Bluetooth.
- Accomplished successful working of each robot with minimal command signals to the robots.

CERTIFICATIONS

Google UX Design Professional Certificate - Coursera   **June 2023 - Present**

POSITIONS OF RESPONSIBILITY

Vice Chairman, MIT IEEE
- Organized coding competition 'Code-Jam' and technical workshops for more than 250 participants.

Cultural Head, Bhumi NGO
- Monitored a team of 18 event heads for cultural events for approximately 600 underprivileged children.