

# Srushti Sachdev

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(737) 977-1870 | Richardson, TX | Software Engineer

## SKILLS

**Programming Languages and Tools:** Java, Python, Javascript, HTML, CSS, NPM, IntelliJ Idea, Android Studio, Visual Studio, Git, Linux

**Libraries and Paradigms:** React, Bootstrap, ExpressJS, Node.js, REST API, OOP

**Data and Distributed Systems:** SQL, MySQL, Firebase Firestore, MongoDB

## EXPERIENCE

**Associate Software Engineer, Accenture Solutions**

**Jan 2021-Jul 2021**

Mumbai, Maharashtra, India

- Implemented the company's internal analytics system to organize employee data of the data for 1,000+ employees
- Integrated data from internal and external systems resulting in globally consistent view of data, reduction of data discrepancies and by 70% and improved reporting accuracy by 50% which lead to more informed business strategies
- Revamped the report generation process by implementing automated workflows in MS Excel, resulting in a 50% reduction in manual effort and saving 20+ hours per week for business stakeholders
- Monitored the reports and met daily and weekly deadlines to eliminate redundant reports

## PROJECTS

**V-Assist: Digital Divide Elderly, Academic Project**

**Sept 2022-Dec 2022**

(Tech Stack: React, Javascript, CSS)(<https://dp-h59jn5gly-guptavashisht24.vercel.app/>) <https://github.com/srushtiss/dp-hci>

- Developed a Single Page Application UI using ReactJS which aimed to help people gain knowledge of existing apps, thus reducing effort and time to understand any app by 90%
- Conceptualized Git for version controlling and regularly pushed the code to GitHub which improved the team collaboration by 80%
- Incorporated React Hooks like useState, useEffect and useContext for the state management inside the components
- Created stable and reusable React components and stand-alone functions thus reducing the code redundancy by 80%

**ExerTracker, Personal Project (<https://exer-tracker.onrender.com/>)**

**Nov 2022-Dec 2022**

(Tech Stack: MongoDB, Express, ReactJS, NodeJS, REST API [MERN])

<https://github.com/srushtiss/ExerTracker>

- Designed an user friendly UI using ReactJS helping users to create and view exercise logs
- Interacted with java controllers (Ajax, and JSON to write/read data from back end systems) using RESTful Services
- Implemented ReactJS library for templating for faster compilation and efficient DOM rendering

**AIDE-AI and IoT enabled Home Automation for Disabled and Elderly, Academic Project**

**Aug 2019-April 2020**

(Tech Stack: IoT, AI, Firebase, Android)

<https://github.com/srushtiss/AIDE>

- Engineered a glove and a wrist band equipped with flex sensors, an Arduino microcontroller and a Bluetooth module enabling gesture recognition for control of devices, with 30% efficiency and enhanced user interaction
- Programmed a Raspberry Pi hub to collect the data from the glove and appropriately turns a device on or off with an accuracy of 80%
- Built an AI agent using LSTM with two models-Activity recognition and Fall Detection, trained and tested on real time dataset of 106,010 tuples with equal representation of 25% of each activity
- Designed an Android mobile app using Java to monitor the activities of patients and status of devices, stored in Firebase Firestore database and delivering a notification within 3 seconds in case of falling

## EDUCATION

**The University of Texas at Dallas, Richardson, TX**

**Aug 2021-May 2023**

Masters of Science in Computer Science

**University of Mumbai, Mumbai, Maharashtra, India**

**Aug 2016-Oct 2020**

Bachelor of Science in Computer Engineering

## **PUBLICATIONS**

- Sahu S., Kshirsagar S., Sachdev S., Singh N., Tiwari A. (2021) AIDE—AI and IoT-Enabled Home Automation for Disabled and Elderly. In: Hassanien A.E., Bhattacharyya S., Chakrabati S., Bhattacharya A., Dutta S. (eds) Emerging Technologies in Data Mining and Information Security. Advances in Intelligent Systems and Computing, vol 1286. Springer, Singapore.  
[https://doi.org/10.1007/978-981-15-9927-9\\_23](https://doi.org/10.1007/978-981-15-9927-9_23)
- S. Kshirsagar, S. Sachdev, N. Singh, A. Tiwari and S. Sahu, "IoT Enabled Gesture-Controlled Home Automation for Disabled and Elderly," 2020 Fourth International Conference on Computing Methodologies and Communication (ICCMC), 2020, pp.821-826.  
<https://doi.org/10.1109/ICCMC48092.2020.ICCMC-000152>