SABIHA TARANNUM SHAIK

+91-9563833339 | sabihatarannum2002@gmail.com | LinkedIn: @sksabihatarannum

Education

B.Tech | CSE, Shri Vishnu Engineering College for Women, Bhimavaram   **2023**
CGPA: 9.31
Higher Secondary School | MPC, Sasi Junior College, Tanuku   **2019**
GPA: 10
Secondary School | Saint Francis de Sales, Tanuku   **2017**
GPA: 10

Skills

Programming Languages: Java, Python, C, C++
Web Development & Frontend Technologies: HTML, CSS, JavaScript, Angular, React
Backend & Frameworks: NodeJS, Flask, REST APIs
DB: MySQL, MongoDB, Couchbase, PostgreSQL, Azure
DevOps: Docker, Jenkins, CI/CD
Software & Tools – Git, Bitbucket, Linux, Postman, Excel, Unity 3D, Blender, Graphviz

Work Experience

SOFTWARE ENGINEER @ NXP SEMICONDUCTORS   JUL 2023 – MAR 2025

- Sole maintainer of APPROVE, a comprehensive Java-based test validation framework with 75+ software packages, used for integration and validation. [Java, Jenkins]
- Designed and implemented multiple test cases for the Digital Radio subsystem, identifying and resolving critical integration and validation issues. Performed functional, stress, performance, and integration testing. [Java]
- Established a robust Integration & Validation Infrastructure, including: Result Viewer, Resource Manager, Automated Test Scheduler, Audio Validator, Jenkins Server & Pipelines, SonarQube Server, and other critical tools. [Node.js, Python, Angular, REST APIs, Postman]
- Developed a Release Report Generator, significantly reducing test engineers' workload by automating reporting, cutting down reporting time from two weeks to a few hours.
- Led the migration of 10+ years of data from Couchbase to Azure (Cosmos DB, MongoDB, Blob Storage, and MySQL), ensuring data integrity and seamless transition.
- Successfully collaborated across 5+ teams, maintaining complete ownership of deployed software, services, and databases within NXP.

SOFTWARE ENGINEERING INTERN @ NXP SEMICONDUCTORS   JUL 2022 - JUL 2023

- Designed and developed Orchestrator, an application responsible for firmware build automation, testing, and issue reporting. This system streamlined the software release process by automating integration and system testing, reducing the software release cycle from 6 months to 8 weeks. [Python, Angular, Web Design]
- Increased software release frequency by ~1200% through the implementation of a continuous integration and automated software release pipeline. Orchestrator runs various software frameworks, collects data, generates insights, and provides real-time notifications.
- Solely responsible for UI/UX development in Orchestrator, ensuring an intuitive and efficient user experience.
- Automated the end-to-end process of firmware build, loading, and flashing onto the Radar Front End (Chip/Board) using scripting, enabling a seamless CI/CD workflow for firmware updates, testing, and deployment. [Python, Bash, Linux, Jenkins, CI/CD]

Academic Projects

Detecting Pneumonia in 2D Chest X-rays   DEC 2023 - APR 2023

- Built a deep learning model with 92% accuracy using sample dataset and machine learning algorithm, VGG16 to detect pneumonia in chest X-rays at a level exceeding practicing radiologist. [Keras, Glob and SciPy]

Code Rush, Android Game   MAY 2021 - JUN 2021

- Created an engaging infinite running game where players collect coins represented by programming language keywords and operators like ++, --, >>, <<. The score is updated based on the operators collected, making the game

an interactive way to learn programming concepts while having fun. [C#, Unity 3D, Blender, Android Studio]

Campus Parking System, Web Application   DEC 2020 - JAN 2021
- Created a web application that helps manage vehicle parking by displaying the total number of available slots. Users can book a slot through the app streamlining the parking process. [JSP, Java Servlets, MySQL, Apache Tomcat, JS, HTML, CSS]

Meal Counting App, Web Application   JUN 2020 - AUG 2020
- Developed an application that allows the mess authority to update the weekly meal menu. Students can view the menu and choose their preference (veg, non-veg or no meal) directly through the app. [MERN Stack]

Achievements

3* Doubt Solver, CodeChef   APR 2022 - MAY 2022
- Selected as one of 25 participants nationwide who have sufficient coding contest and practice experience on the platform to solve doubts raised by students.
- Received a certificate of appreciation for solving 226 doubts on the platform.

Women Techmakers Engineering Fellows, TalentSprint, supported by Google   MAR 2020 - APR 2022
- Selected as one of 120 participants consisting of over 15,000+ applicants across India for a 2-year professional development program and received a certificate for the successful completion of the program.
- Worked on projects in Python and Web Development, participated in weekly coding contests & practiced presentation skills.
- Created a personal portfolio website using HTML, CSS, and JS as a part of the program.

Awards

- **NXP Cheers for Peers [Oct, 2024]-** Certificate of appreciation in recognition of exceptional efforts, commitment, and dedication, and for being successfully providing the scripts to deliver customer log files.
- **NXP Cheers for Peers [May, 2024]-** Certificate of appreciation for adding integration tests in time before the SW release.