

ISHMAN BAHRHA

India

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Work Experience

Tata Consultancy Services

Sep 2021 – Present

Systems Engineer

Bangalore | Pune, India

- Automation Development - Developed Python scripts adhering to Object Oriented programming (OOP) to automate various requirements for customers across cross-functional teams ensuring streamlined scalable and faster delivery.
- Worked closely with the Cyber Security team to develop Message Authentication Code (MAC) functionalities - for the application of secure communication in vehicle unlocking mechanism.
- Developed scripts for Data Link Layer and Physical Layer functionalities - assisting the client's validation capabilities for CAN communication protocol.
- Developed the in-house Python library for bridging the gap between various execution environments - HIL, SIL and cloud platforms - producing reduced redundancy of code.
- Produced and maintained comprehensive documentation and user manuals, ensuring technical communication of project information to stakeholders.
- Worked with CI/CD pipelines for the build, test, and deployment processes leading to consistent and reliable releases - using Jenkins and Git.

Technical Skills

Languages : Python, PostgreSQL, HTML, CSS, JavaScript

Libraries & Frameworks : React, Bootstrap, Pandas, PyWin32, PyPDF2, Bokeh

Tools : Bitbucket, GitHub, Jenkins, Jira, MATLAB, NodeRED

Others : AWS Cloud, Scaled Agile Framework (SAFe), Git, DevOps

Education

Bachelor of Technology | B. Tech

2017 – 2021

Gyan Ganga Institute of Technology and Sciences

CGPA - 9.02

Electronics and Communication Engineering

Projects

Automated Requirements Traceability Matrix | *Python, Automation, Microsoft Interop* **January 2023**

- Developed automated Requirements Traceability Matrix which performs comparisons and analysis between multiple Excel sheets or workbooks.
- Auto populates missing data. Formats and colour codes cells for improved visualisation.
- Used to compare the differences between subsequent cadence releases of requirements.
- Identified and resolved a bug from IBM Rational DOORS software where the same requirement IDs with differing whitespaces were processed differently.

IBM Hackathon – Recruitment ChatBot | *NodeRED, PostgreSQL, IBM Watson Assistant* **June 2020**

- Artificial Intelligence based interactive chatbot deployed on IBM Cloud used to filter candidates.
- Answers candidates' general FAQs.
- Stores candidate information in a database and sorts them based on criterion set.

Mood Based Recommendations | *Python, Pandas, Matplotlib, Bokeh* **May 2022**

- Performs Analysis of everyday moods and provides recommendations from a list of movies.
- Displays a visualisation of overall insights and patterns.

Personal Portfolio | *React, HTML, Tailwind CSS, Bootstrap* **Mar 2024**

- Actively developing personal portfolio website deployed on GitHub - showcasing technical skills, professional background and projects built.
- GitHub - <https://github.com/ishmanbahrha/GitHub/tree/main/React-Portfolio>

Training and Certifications

- AWS Cloud Practitioner Essentials
- CCNA - Introduction To Networks (CISCO Netacad)
- Introduction To Machine Learning - IBM Developer Skills Network
- Data Science Foundations - IBM Developer Skills Network
- PCAP: Programming Essentials in Python (CISCO Netacad)
- SCILAB - Spoken Tutorial Project, IIT Bombay