ZARANA BHALALA

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CAREER OBJECTIVE

To attain an innovative, responsible, and challenging position in a professionally managed organization where I can enhance and use my skill set to contribute to the growth of the organization.

EDUCATION

M.S. in Computer Science, Jan 2021 – May 2022	**B.E. in Information Technology**, July 2013- May 2017
New Jersey Institute of Technology GPA – 4.00/4.00	Gujarat Technological University, India CGPA – 8.82

TECHNICAL SKILLS

Programming Languages:	Python, C and Java
Database Systems:	MySQL
Mark-up Language:	HTML, CSS, Bootstrap and Markdown
Operating Systems:	Windows, Linux and Mac
CI/CD:	Git, GitHub, Travis CI, Docker and Unit Testing
Software Tools:	PyCharm, Postman, Jupyter Notebook, NetBeans, Eclipse, Turbo C/C++, Visual Studio and MS Office

WORK EXPERIENCE

eInfochips Pvt Ltd, Ahmedabad, India

Title: Software Engineer   July 2017 – Jan 2019

Project: **Air-Ground Communication System (Client: Astronautics.com USA)**

- Developed Unit Test cases and automated Test Procedures to run test cases for various modules using DO178B (software guideline standards in airborne systems) using Python and C.
- Performed peer code reviews.
- Communicated directly with on shore clients to handle their requests in a highly consulting environment.
- Developed modules in CI/CD pipeline using on premise CI/CD and SVN tools.

Tools & Languages: Python, C, SVN, TFS, DOORS

Key Achievement: Received Best Project and Pat on The Back awards for excellent performance.

eInfochips Training & Research Academy, Ahmedabad, India

Title: Software Engineer Trainee   January 2017 – June 2017

- Familiarizing with software development lifecycle and different languages, tools, web technology, mobile application development.
- Designed Attendance Monitoring System using Python
- Designed Peripheral Verification Framework for the verification of the I/O devices with Test cases and Test Procedure using C and Python.

Project: **IoT Based Smart Drawer**

Developed Smart Drawer using RFID tags, Reader and RESTful web services. A web Application is used to track and monitor products in the inventories.

ACADEMIC PROJECTS

Login and Registration - Created web application for login and registration process that includes email verification and offer CRUD operation to manage data using Python flask, HTML, CSS, Bootstrap, Docker.

Calculator - Developed a Calculator program in Python to implement Object Oriented Programming (OOP) using Docker, Unit testing and created a docker container of the developing environment and deployed the same on GitHub.

Websites – Created History of Internet, How the Internet works, Docker Linux and Containerization websites using HTML, CSS, Bootstrap and JavaScript.

IoT Based Smart Water - Developed a portable device that monitors the consumption and quality of water using Arduino Mega, sensors, IDE of Arduino for programming, PHP, MySQL, ThingSpeak Cloud.

Big Data Analysis – Hadoop - Implemented a mapreduce algorithm to count the number of words from a file using Hadoop and java.