

SHYAM SUDRA

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EDUCATION

- **Gujarat Technological University – Rajkot – (2017 – 2021)**
Bachelor of Engineering in Computer | **9.38 CGPA**

SKILLS

C | C++ | **Python** | **Networking** | **SONiC** | **Spytest** | Linux | Docker | **HTML-CSS-JS** | **ReactJS** | Figma

WORK EXPERIENCE

Celestica | Associate Engineer Software/Control Design

Dec'21 – Present

- Worked on various projects mainly covering networking protocols and building an automation infrastructure to verify the networking protocol and hardware aspects of different switches.

PROJECTS

1) Infrastructure development for Hardware Automation.

- Independently carried out the implementation of automated hardware testing infrastructure. This encompassed the **automation of the oscilloscope, waveform generator, thermal chamber, and Device Under Test (DUT)** functionality, leading to an impressive **80% reduction in operational overhead** for the hardware testing team.
- **Tools/Technologies:** Python, Pytest, PyVisa, PySerial, Paramiko

2) Automated Networking Protocols for SONiC (ACL, Sflow, BGP, LLDP MED & TACACS+)

- Carried out the **manual and automation of networking protocol in SONiC**, including Access Control Lists (**ACL**), Sflow, Border Gateway Protocol (**BGP**), **TACACS+**, and **LLDP MED** using open-source **Spytest automation framework to execute comprehensive testing**. Scripted libraries for different BGP & Sflow functionalities that were not present in the Spytest framework; e.g.: BGP Nexthop & BGP Memory check etc.
- Curated a test plan addressing the evaluation of **Voice VLAN, LLDP MED, and TACACS+ AAA** protocols.
- **Tools/Technologies:** Python, Pytest, Paramiko, Spytest, IXNetwork, IxExplorer

3) Advanced CPLD Testing and Issue Mitigation.

- Conducted CPLD testing across various white-box switches, yielding precise testing results. These results **facilitated the hardware team in promptly addressing issues** within a mere **two-week timeframe**.

4) Qualification of different Celestica's 400G & 800G platforms.

- Conducted protocol and throughput testing for Celestica's switches.

5) Platform Validation with ONL (Open Network Linux)

- Executed **platform testing on Celestica switches utilizing ONL (Open Network Linux)**, which covered tests related to **fan and PSU**.

6) Lab Network Establishment and Diagnostics.

- Actively contributed to the **establishment of the lab network**, taking charge of **debugging and swiftly resolving any network-related challenges** that arose.

7) Lab Reservation Tool.

- Created a lab reservation tool for Celestica's internal usage, **including topology details and reservation functionality** for sharing across different teams.

PERSONAL PROJECTS

1) BeatCode - A Leetcode clone ([Link to the site](#)) ([Link to GitHub](#))

- Built a Leetcode clone to practice coding questions with code-compilation capability in 5 languages (Python3, C, C++, JAVA & Kotlin).
- **Tools/Technologies:** ReactJS, HTML-CSS-JS.

2) ChatApp - A WhatsApp clone ([Link to the site](#)) ([Link to GitHub](#))

- Created a WhatsApp-like live chat application with a real-time database where users can register and chat with other users.
- **Tools/Technologies:** ReactJS, HTML-CSS-JS, Firebase.

ACHIEVEMENTS

- Achieved Bravo Award for multitasking with BRMC SONiC & Spytest Automation. ([Link to Certificate](#))
- Received a promotion within a two-year period for exceptional contributions.

PERSONAL DETAILS

- Date Of Birth: 31st Oct 1999
- Marital Status: Single
- Passport Number: U6636730

HOBBIES & INTERESTS

- 1) Part of the team that gives training for technical interviews at GEC, Chennai. ([Link to Certificate](#))
- 2) Sketching and Painting.