

SUMAN MITRA

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EDUCATION

IIIT Hyderabad

M.Tech in Computer Science and Information Security (CSIS)

Department of Computer Science and Engineering

Aug 2020 - Present

Overall GPA: N/A

MAKAUT, WB (formerly WBUT)

B.Tech in Information Technology (IT)

Department of Computer Science and Engineering

Aug 2012 - Jul 2016

Overall GPA: 8.06/10

TECHNICAL SKILLS

Computer Languages

C, C++, MySQL, Python, JS, HTML, CSS, Java

Software & Tools

CDRouter, Bitbake, Yocto Project, TDK for RDK-B, MVC using Java, JIRA, AFrame (Basics)

WORK EXPERIENCE

Infosys Ltd, Bangalore

Senior Systems Engineer

Oct 2016 - Apr 2019

- Code refactoring and patch customization for MSO layer in RDK-B based Cable Modem using BitBake (Yocto).
- Developed test scenarios for various components of Cable Modem like WiFi and eRouter.
- Designed, executed and debugged functionality and protocol level test cases (Python & TCL scripts) using CDRouter tool.
- Designed, executed and debugged component level test cases (Python scripts) using TDK (Test Development Kit for RDK-B) and Boardfarm testing frameworks.
- Developed CLI automation framework for TDK using Python.
- Built and handled the client side GIT repositories for code modifications.
- Managed JIRA confluence pages.

ACADEMIC PROJECTS & ACHIEVEMENTS

1. Terminal File Explorer: Made a Linux Terminal based File Explorer in C++ using various system calls to replicate basic functionalities of a File Explorer like surfing through directories using arrow keys, create/copy/rename/delete files and directories using user-given commands etc.

2. InfyTube Project: Built a video streaming web application using Adaptive Bitrate streaming (MPEG-DASH) with different video categories and user sessions. MVC (Java) architecture used. Hibernate (HQL) in Persistence layer, Core Java in Business layer, JS for the Controller and HTML5, Bootstrap, AngularJS for the Presentation layer.

4. PyAdventure Project: Developed a CLI based application for viewing, planning and booking adventure trips using Python 2.7. Oracle 11 used for DB connectivity.

3. Online Kolkata Metro Reservation System Project: Developed a sample web application using PHP & WAMP server for Kolkata Metro online ticket booking.

5. Event Coordinator for Annual Tech+Cultural Fest twice (AlgoRhythm 2k15 & AlgoRhythm 2k16) in my graduating college.

6. Scored School Rank: 1 and City Rank: 3 in International Cyber Olympiad 2011.