

EDUCATION

- **International Institute of Information Technology (IIIT)** Hyderabad, India
M.Tech in Computer Science and Engineering; GPA: 9.7/10 *July. 2018 – Present*
- **Indian Institute of Technology (IIT)** Kharagpur, India
B.Tech in Mechanical Engineering; GPA: 8.24/10 *June. 2012 – July. 2016*

ACHIEVEMENTS

- All India Rank-1069 in IIT-JEE and All India Rank-454 in IIST
- Received Certificate of merit for being one among Top 450 Students (Top 1%) in Indian National Physics Olympiad
- Qualified for a Fellowship award for securing All India Rank-342 in Kishore Vaigyanik Protsahan Yojna (KVPY)
- Received Institute Blue and Best Outgoing Sports awards for 4 years of excellence in sports at IIT Kharagpur
- Received a monthly Employee Recognition award at Quantum Analytics

PROJECTS

- **Home Automation (IoT)**
 - **Android App:** Built an Android app which connects to home wifi network and allows users to control different appliances at home. Implemented a network service discovery protocol to find the IP address of the home server listening for connections
 - **Raspberry Pi:** Built servers in C++ and Python to handle incoming requests from the user(Android App), parse and redirect them to the respective Arduino. Used Google Grpc for communication
 - **Arduino:** Used NRF24L01 wireless transceiver module for communication between Pi and Arduino. Parse incoming request to turn ON/OFF the appliances using relay module
- **Pastry - Distributed Hash Table**
 - Built a distributed hash table with data replication across 3 other nodes
 - Lazy repair of routing, leafset and neighbourhoodset tables and timed repair of leafset every 30sec along with log messages for each node
 - Used Google protocol buffers for message serialization and de-serialization
- **Mini-Torrent File Sharing System**
 - Built a bit torrent like file sharing system with fallback multi-tracker system with synchronization and parallel downloading. Used openssl library for computing hash values of files
 - Implemented own RPC mechanism, message encoding and methods for message serialization and de-serialization
- **Dropbox**
 - Built a dropbox like web application using Bootstrap, Flask, JQuery and mysql database
 - Implemented features like user authentication, download, upload, copy, move, share, etc
- **Terminal based File Explorer**
 - Implemented a terminal based file explorer which can run in both command line/normal mode
- **Pintos**
 - Implemented pre-emption of threads, priority and MLFQS schedulers (BSD) for the Pintos threading system

EXPERIENCE

- **Quantium Analytics** Hyderabad, India
Analyst - FMCG *Jan 2017 - July 2018*
 - Worked for retail clients in Australia to answer business questions using Woolworths customers data
 - Automated several dashboards from database quering to report generation
- **Amazon India** Hyderabad, India
Worked as Area Manager at Hyderabad Fulfillment Center *June 2016 - October 2016*

PROGRAMMING SKILLS

- **Languages:** C, C++, Java, Python, SQL, Teradata, VB, Javascript, CSS, HTML
- **Software Tools:** Git, Excel
- **Technologies/Frameworks:** Google Grpc, Protocol Buffers, Flask, Bootstrap
- **OS/Platforms:** Linux, Raspberry Pi, Arduino, Android
- **Other:** Object Orientated Design

EXTRA-CURRICULAR

- Served as Secretary, Technology Students Gymkhana and Captain, Patel Hall Basketball team at IIT Kharagpur
- Member, Silver and Gold winning Cricket team, IIT Kharagpur at the 49th and 50th Inter IIT Sports Meets
- Represented Andhra U-14 cricket team