

HIMANSHU CHADHA

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Profile Summary

Total Experience - 1.9 Years | **Current Location** - Delhi, India | **Preferred Location** - Pan India

Professional Experience

Synergy Systems & Solutions

June 2024 – September 2025

Jr. Software Engineer

Delhi NCR, India

- Designed and implemented the **DAE** (Data Acquisition and Alarms & Events) module by consolidating legacy **AEP** and **PDU** modules, delivering **40%** performance improvement and significantly reducing system complexity
- Developed key features including **GRO** (Generate Roll Over) for database table management, **Test Mode**, and **Questionable Flag** mechanisms, strengthening data validation and fault detection processes
- Integrated ExtremeDB View API to optimize data access patterns, resulting in **25%** faster query responses and improved overall system efficiency
- Architected and built the **LSA** (Load Shed Application) module with a **JSON** configuration parser, automated database population system, and robust error handling framework, resulting in up to **60%** improvement in module performance and reliability
- Resolved **15+** production critical issues through debugging, simulation, and root cause analysis, ensuring zero downtime deployments and stable production releases
- Collaborated cross-functionally to troubleshoot and enhance the **SIRIUS MQTT** module, performing data integrity analysis, system simulations, and implementing permanent fixes for field reported defects
- Designed a multi level reference architecture for the **SIRIUS MQTT**, enabling chained table queries (**2–5 levels deep**) with caching mechanisms for faster retrieval and scalability
- Implemented comprehensive software licensing solution using SoftActivate SDK, including license key generation, validation, and activation server configuration for the **SIRIUSx64** application
- Authored detailed technical design documents outlining data structures, implementation phases, and performance optimization strategies to ensure maintainable and high quality software delivery
- Utilized **GTest** framework to conduct unit and integration testing and maintained strict version control practices using **Git** and **Bitbucket**, ensuring smooth collaboration and reliable build management within **Agile** workflows

Synergy Systems & Solutions

December 2023 – June 2024

Software Engineering Intern

Delhi NCR, India

- Migrated four legacy **SCADA** modules (**PSM**, **SSDLL**, **AEP**, **PDU**) from **C++98** to **C++17**, upgrading build environment from **Visual Studio 2008** to **2022**
- Replaced database interface with **ExtremeDB**, ensuring system compatibility and performance
- Delivered clean, modernized code with **zero** build warnings, improving long term maintainability
- Gained hands on experience with industrial systems, **SCADA protocols**, and real time **RTU software stacks**

Technical Skills

C++, SQL, MySQL, ExtremeDB, Git, GitHub, SourceTree, Bitbucket, Confluence, Data Structures and Algorithms, Object Oriented Programming, Multithreading, Memory Management, Operating System, Computer Networks, Unit Testing (GTest), Performance Optimization, Debugging, Agile Development, Software Development Life Cycle, Visual Studio, Database Management Systems

Education

Department of Computer Science, University of Delhi

2022 - 2024

Master of Science in Computer Science

7.69/10 CGPA

Ramanujan College, University of Delhi

2019 - 2022

Bachelor of Science (Hons.) in Computer Science

9.04/10 CGPA

Balvant Ray Mehta Vidya Bhawan (A.S.M.A.), Delhi

2018 - 2019

CBSE Class XII

91.4%

Balvant Ray Mehta Vidya Bhawan (A.S.M.A.), Delhi

2016 - 2017

CBSE Class X

9.0/10 CGPA