

Eshita Sangodkar

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EDUCATION

MS IN COMPUTER SCIENCE | GEORGIA INSTITUTE OF TECHNOLOGY Atlanta, GA | Jan 2022 - Current

- **Courses:** Graduate Intro to Operating Systems, Software Architecture & Design, Database Systems & Design

B.E IN ELECTRONICS & COMMUNICATION | GOA UNIVERSITY Goa, India | June 2010 - May 2014

- **Courses:** C & C++ Programming, Data Structures Using C++, Information Technology, Computer Oriented Numerical Techniques (AI)

PROJECTS

CONTENT MANAGEMENT SYSTEM  PHP, MySQL, HTML, CSS, BOOTSTRAP

Created a fullstack application where users can login, register and publish blogs. Implemented back-end data storage in MySQL database system.

GROCERY SERVICE APPLICATION JAVA, SPRINGBOOT, POSTMAN COLLECTION, SQL, JSON

This project was a part of our academic curriculum which involved developing an application where customers and stores can register and sell items. Authentication and authorization, encoding, cache service, database indexing was implemented to improve security, performance and scalability of the system.

ONLINE BARTERING SYSTEM EER DIAGRAMS, SQL, HTML, CSS

This project was a part of our academic curriculum which helped me understand how to design and implement database system using SQL. In the three phases of the project, we had to identify entities and develop the EER diagram and the schema, implement the database, develop a front end application where the users can register, list items, view other items and trade.

DISTRIBUTED FILE SYSTEM C++, gRPC PROTOCOL, MULTI-THREADING

This project was a part of our curriculum for the course 'Operating Systems' where we had to implement a multi-threaded server and multi-client application. gRPC protocol was used to transfer files between the client and the server while semaphores provided isolation and read-write protection. At all times, the file with the latest timestamp was made available across the entire system.

WORK EXPERIENCE

MAGNUM INTEGRATED TECHNOLOGIES | PLC SOFTWARE DEVELOPER Toronto, ON | Nov 2020 – Jan 2022

- Developed and commissioned Siemens PLC/SCADA software using **C**, **VBA** and **Ladder Logic**, implemented algorithms to process data from analog sensors, significantly improved the cycle time and memory utilization by **code optimization**.
- Took up the task to develop standard library for the team, developed standard function blocks and HMI/SCADA faceplates in **C** and **VBA**, created efficient algorithms for data tracking which helped reduce man-hours on projects.
- Actively involved in budget estimation, estimating man-hours, control system design, kick-off meetings.

PIA AUTOMATION | PLC SOFTWARE DEVELOPER Toronto, ON | May 2019 - Nov 2020

- Responsible for programming an assembly line of N95 mask machines during the pandemic.
- Developed PLC software to assemble car engine for Chrysler, implemented algorithms to process data from third party vision systems, analog sensors and control robotic arms.
- Implemented SQL server to store manufacturing data.

SM GROUPE INT | SCADA SPECIALIST Montreal, QC | Aug 2018 – March 2019

- Overlooking, managing and driving the development of PLC/SCADA software for Oil & Gas project for Sonatrach based in Algeria.

SIEMENS | EXECUTIVE ENGINEER Mumbai, IN | Aug 2014 – Oct 2017

- Development of software and on-site commissioning of DCS Control Systems.
- Configuration of plant network