

Zain Ali

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Objective

Enthusiastic software engineer looking to pursue an IT internship at Environics Analytics. Experience includes Requirements gathering, systems analysis, writing efficient code, and software testing for various school and personal projects.

Education

Bachelor of Computer Science (Honors), 2021-Present
Algoma University (Fourth Year)

Computer Programmer Diploma, Graduated 2020
Seneca College

Relevant Projects

Employee Application Review Application

Scope: Worked as part of a four-member team on an Employee Application Review System for in-house use at Algoma University. Gathered requirements, created the software requirements and specifications document, curated the design document, implemented the code, and finished testing and analysis.

Software Stack: Java Spring boot, MySQL, HTML, JavaScript

Tools: Eclipse IDE for Java, MySQL Workbench, Microsoft Visual Studio Code, Lucid Chart, Visible Analyst, Microsoft Teams, Google Meet

Systems Analysis and Relational Database Design

Scope: Acted as the systems analyst for Petrie Electronics (Case Study). Actively evaluated terms of the project in project planning, gathered requirements and created the systems requirements and specifications document. Created the system architecture document, outlined the user interface, and created the system design document. Modelled system using data flow diagrams and Entity relationship diagrams. Implemented the system using SQL queries in MySQL Workbench and completed the relational modelling for the project.

Software Stack: SQL

Tools: Lucid Chart, Visible Analyst, MySQL Workbench, Microsoft Word

Cash Register Application

Scope: Created an object-oriented cash register application for a local grocery store. Utilized OOP concepts to ensure seamless integration of all classes and methods within the program. Used an external data file to maintain inventory and a separate file to contain employee information such as pay rate, address, and login information.

Software Stack: C++

Tools: Microsoft Visual Studio, Notepad++

Advanced Infix Calculator Project:

Scope: Designed and Implemented a calculator application that converts an Infix expression into a post-fix expression with the appropriate error handling.

Software Stack: Java,
Tools: Eclipse IDE for java

Key Courses Completed:

- Data Structures and Algorithms using Java
- Object Oriented Programming using C++
- Database Design (SQL)
- Systems Analysis and Design
- Web Programming Fundamentals (JavaScript, HTML, and CSS)
- Software Engineering
- IBM Business Computing
- Applied Professional Communications
- Linux/ Unix
- Discrete Mathematics I and II

Work History

Customer Service/ Concierge, **2022**
VP Protection Services
Toronto, Ontario

Loss Prevention Officer, 2020-2021
Honda Canada (Russell Security)
Markham, Ontario