



ABHIMANYU TYAGI

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EDUCATION

University of Toronto

Toronto, ON • Expected in 05/2025

Bachelor of Applied Science And Engineering:

Electrical and Computer Engineering

Minor in Engineering Business: Engineering

Business & Artificial Intelligence

SKILLS

- C, C++, Java, Python
- MongoDB, MySQL and Oracle SQL
- Apache Kafka, Maven, Tomcat and Camel
- Hibernate, Spring and Spring Boot
- Glade, Unix/Linux and UI
- Eagerness to learn and understand
- Verbal and written communication
- Data Structures and Algorithms
- Critical and Analytical Thinking
- Fast and Accurate Problem Solving

CERTIFICATIONS

- Java SE 8 Associate, Oracle - April 2022
- Oracle SQL 12G, Tech Altum - July 2020

PROFESSIONAL SUMMARY

A Software Engineering Intern passionate about developing skills through hands-on learning and problem-solving. Experienced in both desktop and web development environments using Java, C, C++ and other languages to produce clean, efficient code.

Exposure to back-end web development using Hibernate and Spring/Spring Boot and Oracle SQL, MySQL, and MongoDB has given a deep understanding of similar software development technologies. Currently, a fundamental comprehension of AWS cloud computing services is being obtained.

Finally, as a natural-born leader, I thrive in collaborative environments and excel in helping team members produce their absolute best work.

WORK HISTORY

Sidharth Systems Inc - Software Developer Intern

Mississauga, ON • 05/22 - 08/22 and 05/23 - 08/23 (8 months)

- Prepared and submitted reports and other documentation to assist development team members
- Collaborated effectively with members of software development team and personnel in other departments
- Learned software engineering process improvements and best practices.
- Designed and tested client-server network components
- Met with Project Manager on weekly basis to provide detailed project report and milestone updates
- Environment: Java 8, C, C++, Oracle SQL, MySQL 8.0, Oracle 12G, Apache Tomcat, Maven 3.0, Eclipse 4.5, Hibernate, Spring, Spring Boot, STS 4.10.0, Postman, Rest API, MongoDB, Unix/Linux, Windows.

PROJECTS

- 1. Mapping and Routing Design Project : C++, Glade UI, EZGL, Git**
Used the OpenStreetMap API to fetch geodata, and the EZGL library for map graphics while implementing A* and Dijkstra's algorithms for efficient pathfinding and simulated annealing to solve a variation of the traveling salesman problem.
- 2. Database Management System: Java, Spring, SpringBoot, MongoDB**
Created a DBMS project which can input, display, edit and delete many records from different collections in MongoDB, along with future implementation for messaging and routing services from Kafka and Camel.
- 3. De1-SoC Obstacle Dodging Game: C, ARM Assembly, FPGA**
Created a game on the De1-SoC board where the user had to dodge randomized obstacles and obtain a high score using C and ARM Assembly. Configured interrupt-driven I/O for input push-buttons and keyboard and the output VGA display.