

# Norman Anderson

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## EDUCATION

### MS Computer Science

GEORGIA INSTITUTE OF TECHNOLOGY

Atlanta, GA | January 2023 - December 2024

- Relevant Coursework: Operating Systems, High Performance Computing, Machine Learning

### BS Computer Science

QUEEN'S UNIVERSITY

Kingston, ON, Canada | Graduated April 2022

## WORK EXPERIENCE

### AEROSPACE SYSTEMS DESIGN LABORATORY (ASDL) | FULL-STACK DEVELOPER

Atlanta, GA | Aug 2023-Present

- Developing data visualization features related to energy efficiency of Georgia Tech's campus buildings.
- Using **Vue.js** framework for the front-end and Python's **flask** for the back end.

### LAYER 7 INNOVATIONS INC. | FULL STACK DEVELOPER, CONTRACT

Toronto, ON, Canada | July 2023-August 2023

- Spearheaded the development of a web app using **Java Spring Boot** and **React** to manage clients' estate and will. The app was able to generate **\$40,000** in funds
- **Optimized** the response time of internally-used Java application **by 40%**.
- Designed and optimized a user registration system for the web app.

### INTELLIFI CORPORATION | SOFTWARE DEVELOPER

Markham, ON, Canada | May 2022 – January 2023

- Back end development of software application used by mortgage lender companies.
- Implemented bug fixes and new features in **production code**.
- Wrote and optimized **SQL queries** for ad hoc and reoccurring client requests to extract data from MySQL servers.
- **Reduced data redundancy by 25%** in implementation of a new procedure to pledge loans to financial institutions.
- Streamlined business process by developing a feature to automatically update values on loans eliminating tedious manual entries.
- Proposed and implemented a permanent solution for our client that led to **\$10,000** in additional **revenue**.

### QUEEN'S UNIVERSITY | TEACHING ASSISTANT (TA)

Kingston, ON, Canada | Jan 2021 - April 2021

- TA'ed a second year undergraduate Data Structures course that involved analysis of fundamental data structures such as arrays, stacks/queues, linked lists etc.

## PROJECTS

### FITNESS MICROCONTROLLER DEVICE

C, LOGIC ANALYZER, UART

- Developed an **embedded systems** project using the EK-TM4C123 development board.
- Integrated various **I2C** and **analog sensors** such as temperature, microphone and accelerometer to monitor physical activity of the device user, displaying activity information on an LCD.
- Designed a **Real-time Operating System (RTOS)** to develop a task **scheduler** to handle **thread management** for the device.
- implemented spin-lock **semaphores** to handle process synchronization.
- Gained debugging skills using the TExaS **logic analyzer** software.

### DISTRIBUTED FILE SYSTEM

C++

- Built an **asynchronous file caching** system where clients fetch and write files to a server using RPC calls.
- Used write locks to ensure only one client is modifying files on a server at a time for consistency.
- Implemented algorithms to ensure files cached on the server and client are in sync at all times.

## SKILLS

Languages: C++, C, Python, JavaScript, HTML/CSS

Other Tools: Valgrind, Git, CMake, JTAG, React, Vue.js, Flask, Spring Boot