

# MUSTAFA MAJEED

2404 134<sup>TH</sup> PL SE

MILL CREEK, WA

## Contact Info

Phone: 425-218-5575

Email: [majeem@uw.edu](mailto:majeem@uw.edu)

LinkedIn: [www.linkedin.com/in/MMajeed13](https://www.linkedin.com/in/MMajeed13)

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## SOFTWARE ENGINEERING INTERN

Highly motivated Computer Science and Software Engineering student looking to build on top of my coursework experience by working on team-oriented software engineering projects. I would love the opportunity to showcase my skills at a company that is looking to hire Summer interns for 2019.

## EDUCATION

### UNIVERSITY OF WASHINGTON BOTHELL (UWB)

Expected graduation date : January 2020

B.S. in Computer Science and Software Engineering

## SKILLS

Languages : Java (proficient), C++, MySQL, php

Systems : Windows (10, 8, Vista, XP), Linux

Development Tools : Visual Studios, Eclipse, BlueJ, Sublime, Git

## COURSEWORK

- Computer Programming I & II (Java)
- Physics and Chemistry of Computer Components
- Technical Writing for Computing Professionals
- Data Structures, Algorithms, and Discrete Mathematics I & II (C++)
- Management Principles for Computing Professionals
- Software Engineering
- Database Systems (MySQL)
- Analysis and Design of Software
- Hardware and Computer Organization (68k Assembly)
- Operating Systems

**Deans List** : Spring 2018, Spring 2019

## PROJECTS

*ThreadOS— Java (Coursework)*

ThreadOS is a program that `simulates` how an operating system works on a computer. It is written in Java and uses java threads for multi thread programming. ThreadOS is made as a toy operating system to help students understand how the less privileged user mode applications make system calls to the OS kernel in order to perform the appropriate user requested task.

### Project Details

- **myShell**  
Create the basic shell for ThreadOS. The shell was designed to allow a user to load 1 to many programs for execution. Each program can be separated by an `&` or `;` to signify concurrent or sequential execution.
- **Scheduler**  
Create a synchronized thread scheduling system for ThreadOS that implements a multilevel feedback queue (MFQS).
- **Synchronization**  
Add thread synchronization to ThreadOS so I/O bound threads stop wasting CPU power via busy waiting.
- **Buffer Cache**  
Add a buffer cache system to ThreadOS to reduce the time it takes to read and write to frequently used blocks on DISK. Victims from the buffer cache are chosen by the enhanced second chance algorithm.
- **File System**  
Worked as a group of 3 to create a File System for ThreadOS. It is used manage all the memory on DISK for the Superblock, the inode blocks and the Directory blocks on DISK. The File System will also allocate DISK blocks for newly created files when necessary.

### *Missing Children Database and Simple Webpage— MySQL and php (Coursework)*

Created a database to store information about missing children around the US. This was done using MySQL code and phpMyAdmin.

Also created a website using php to access the missing children database to display the information stored in the database in a list as well as allow the user of the website to alter the age of any of the children in the list.

### *Movie Store— C++ (Coursework)*

Designed a system to automate inventory and customer tracking for a theoretical movie rental store. My team went through a design process to come up with a program design that allowed for easy maintenance and seamless updates. We chose to follow the Factory method for this design for 3 different type of movie genres.

The program functions by reading 3 different text files. One containing customer information, one containing movie inventory information and one containing desired actions to process.

### *Disassembler Project— 68k Assembly (Coursework)*

This project was done in a group of 3 with each person having a specific role of the program flow.

The program is written to scan sections of memory and attempt to convert the contents in memory to a valid string that can be used as assembly language code for the 68K chip. Each member of the team had a specific task to accomplish and write code that would properly communicate with the next role in the chain. After all the code was written, the team got together to complete testing and debug as a complete group to bring the project to completion.

The project also involved writing all the proper documentation to send with the main code files so anyone who needs to use program would know exactly how to use it.

## PREVIOUS WORK EXPERIENCE

### Business Owner/Driver | Tophi Transportation

October 2017 – Present

- Partnered with Amazon.com to deliver packages daily
- Arrive on time to logistics warehouse for every block assignment
- Pick up all packages on assigned route and deliver packages safely and securely to destination address
- Provide feedback for Amazon Flex app after every successful block of work

### Back Of House Manager | Shokudo

November 2015 – June 2017

- Began as a line cook in sauté station
- Prep all stations every day with veggies, sauces, and dressings
- Organize and cleaned station to Chef Armando Litiatco standards
- Promoted to kitchen manager when Chef left in 2016
- In charge of scheduling
- Supervise all kitchen stations which included salad station, Wok station and sauté station, dishwashing station, walk in freezer and cooler, and dry goods storage.
- In charge of daily veggies, meat, poultry, fish and dry goods restaurant orders.
- Inspect quality of food and presentation before sending out plates from kitchen.