LIAM M. MURPHY

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EDUCATION

Marquette University, Milwaukee, WI May 2021
Bachelor of Science, Computer Science Major GPA: 3.38/4.00
Minor: Spanish Language, Literature, and Culture Cumulative GPA: 3.18/4.00

Master of Science, Computing May 2022 expected
Concentration: Information Assurance & Cyber Defense

SKILLS

Programming Languages	Java, Python, C, Node.js, Scheme, ARM assembly
Software & Tools	HTML, Gherkin, LaTeX, GitHub, VIM, Eclipse, Linux CLI
General	Data Structures & Algorithms, Object-Oriented & Functional Programming
Foreign Languages	Conversational in verbal Spanish, Proficient in written Spanish

EXPERIENCE

Northwestern Mutual, Milwaukee, WI June 2020 - August 2020
Test Engineering Intern

- Translated business requirements into deliverables within a Scrum/Agile development environment
- Participated in Scrum ceremonies on two Agile teams
- Developed regression testing scripts using an internal automated testing framework
- Created on an onboarding application for new hires using React/Redux for Node.js

Marquette University I.T. Services, Milwaukee, WI September 2018 - July 2020
Student Help Desk Analyst/Student Lead

- Receiving and resolving issues as the first point of contact to Marquette University's IT Services department
- Tracking and responding to unresolved problems, and notifying appropriate IT Services staff as needed

Marquette University Department of Computer Science, Milwaukee, WI May 2019 - August 2019
Undergraduate Research Assistant

- Collaborated with other research students on developing the Embedded Xinu operating system
- Ported a graphics driver from the Raspberry Pi 1 Xinu build to the Pi 3 B+
- Initiated development on a shell multiplexer using a window abstraction device driver

RELEVANT COURSEWORK

Data Structures & Algorithms I & II
Hardware Systems
Operating Systems
Programming Languages
Networks and Internets
Computer Security (**graduate level)**
Compiler Construction (**graduate level)**
Ethical/Social Implications of Data (**graduate level)**

PROJECTS

Functional Project Language Interpreter August 2019 - December 2019
Programming Languages Semester Project

- Incorporated functional programming concepts into the implementation of a small interpreter for a small functional language
- Gained familiarity in functional programming with Scheme/Racket

Embedded Xinu January 2019 - May 2019
Operating Systems Semester Project

- Implemented integral sections of the Embedded Xinu kernel in C and 32-bit ARM assembly
- Gained experience with real multi-core operating system concepts on real multi-core hardware throughout the semester
- Continued learning and development through an undergraduate research program during the summer of 2019

ACTIVITIES

Marquette University Evans Scholars, Vice President, Finance
MSCS 2019 Programming Competition - Scratch Question Writer and Judge
Association for Computing Machinery, Treasurer Shannon Rovers Irish Pipe Band, Chicago, IL