LIAM M. MURPHY

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EDUCATION

Marquette University, Milwaukee, WI May 2021

Bachelor of Science, Computer Science Major GPA: 3.40/4.00Minor: Spanish Language, Literature, and Culture Cumulative GPA: 3.12/4.00

Master of Science, Computing May 2022 expected

Concentration: Information Assurance & Cyber Defense

SKILLS

Java, Python, C, Node.js, Scheme, ARM assembly **Programming Languages**

Software & Tools HTML, Gherkin, LATEX, GitHub, VIM, Eclipse, Linux CLI

General Data Structures & Algorithms, Object-Oriented & Functional Programming

Conversational in verbal Spanish, Proficient in written Spanish Foreign Languages

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 Networks and Internets

Computer Security (graduate level) Hardware Systems Operating Systems Compiler Construction (graduate level)

Programming Languages 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