

# LIAM M. MURPHY

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## EDUCATION

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### Marquette University, Milwaukee, WI

Master of Science, Computing

May 2021 - May 2022 expected

Concentration: Information Assurance & Cyber Defense

Bachelor of Science, Computer Science

August 2017 - May 2021

Minor: Spanish Language, Literature, and Culture

## SKILLS

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### Programming Languages

Java, Python, C, Node.js, Scheme, ARM assembly, SQL

### Software & Tools

HTML, Gherkin,  $\LaTeX$ , GitHub, VIM, Eclipse, Linux CLI, Oracle Database

### General

Data Structures & Algorithms, Object-Oriented & Functional Programming

### Foreign Languages

Conversational in verbal Spanish, Proficient in written Spanish

## EXPERIENCE

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### Astronautics Corporation of America, Oak Creek, WI

June 2021 - Present

*Software Engineer I*

### 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 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

## PROJECTS

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### Rent Always Paid

August 2020 - May 2021

*Senior Design Project*

- Designed, implemented, and tested a full-stack web application within an Scrum/Agile development environment
- Collaborated on a team with five other students in a year-long Senior Design course
- Integrated business and technical requirements into the product from the head of a local Milwaukee startup

### 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

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Shannon Rovers Irish Pipe Band, Chicago, IL