**Jack Reid McShane**

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**EDUCATION**

**Master of Science, Computer Science** *Graduation, May 2022*

*Indiana University—Bloomington, IN*

**GPA:** N/A

Enrolled in classes for the Fall 2020 semester.

**Bachelor of Science, Electrical Engineering** *Aug 2014—Dec 2018*

*Purdue University Northwest—Hammond, IN*

**GPA:** 3.53/4.0

**RELEVANT EXPERIENCE & SKILLS**

**Development of Microwave Microstrip Filters** *Jan 2018—Dec 2018*

* Utilized evolution-based, artificially intelligent optimization algorithms and the MATLAB environment to develop and improve Superformula-inspired microwave circuits.

**Floor Plan Designer Software Suite** *July 2019*

* Began the development of the GUI package for a software suite that was to ultimately allow the user to develop floor layout plans for a building.
* Gained sizeable knowledge of Swing programming as well as the planning and layout of large scale applications.
* Gained an understanding of version control with large scale applications using GitHub.
* Unfortunately, the project was discontinued by Cheshire Oaks Custom Home Builders and has gone unfinished.

**Hangman GUI Application Utilizing Binary Heap** *August 2019—Present*

* Developing a Hangman application with GUI that uses a binary heap data structure to implement the dictionary for the game.
* The binary heap structure was chosen to inform the guesses of the AI using a scoring system based on the frequency with which individual letters are found within the English language.

**Personal Computing**

* Implemented a dual-boot system on a PC using the Arch and Windows 7 Operating Systems.
* Became proficient in the use and navigation of Linux and Linux Command Line environments as well as developed automated scripts for the Arch Linux system.

**WORK HISTORY**

**Detailer,** *Drive & Shine—Schererville, IN* *Dec 2018—Present*

* Developed ability to manage employees and delegate tasks to meet deadlines as well as create and meet deadlines for projects when asked to manage the detailing shop.
* Learned to manage a high volume of intense, demanding work in a fast paced environment.

**Mathematics Tutor,** *Self Employed June 2016—July 2019*

* Learned invaluable communication skills and improved ability to think creatively when expressing complex ideas.
* Taught pre-algebraic mathematics through integral calculus.