

# Matthew Williams

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## Work Experience

Husky Injection Molding Systems (May 2020 – August 2021)

### Software Design PEY Student

- Used Ruby scripts to reduce storage of servo drive memory cards data by 96%.
- Developed PLC code to automate servo drive parameters updates, removing the need for service techs to visit machines for this procedure.
- Created a C# WinForms tool to aid developers in extracting and organizing parameters from servo drive memory cards
- Created documentation and trained team members on new servo drive procedures.

## Education

McMaster University (September 2017 – April 2022)

- Bachelor of Engineering | Software Engineering | 3.7 GPA
- Course work: Syntax-Based Tools & Compilers, Data Structures and Algorithms, Scientific Computation, Control Systems

## Projects

Math Racer | **React, TypeScript, Node, WebSockets**

- Multiplayer game that gives users a list of math questions to solve as fast as possible
- Uses web sockets to let users race each other in real time

BookBazaar | Group Project | **React, TypeScript, Next.js, Postgres**

- Working with Capstone group to create a marketplace for used textbooks
- Used barcode scanning library to automate part of posting books to the website

Do Your Dishes | **MongoDB, Express, React, Node**

- Web app that allows users to create a house and invite friends
- House members can create, assign, and schedule chores then view them in a calendar

Recommend | Group Project | **Java, Apache Tomcat**

- I developed a graph processing algorithm to suggest restaurants based on the users rating of other restaurants.
- Used the Yelp dataset