

# Zachary Warunek

Computer Science Student

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## Experience

**Ford Motor Company** March 2020 - Present

Full-stack Java/Angular Developer, Full-time Co-op

- Worked on a team to develop and update an internal vehicle tracking website with Angular and Java languages
- Created, implemented, and used REST APIs
- Developed front and back-end systems

**Ford Motor Company** Sept 2019 - Dec 2019

Software Engineer/ Data Analyst, Full-time Co-op

- Engineered Connected Vehicle software for internal use
- Influenced streamlining data collection process
- Supported Data Scientists with vehicle data analysis

## Education

**Kettering University, Flint, MI** July 2019 - Present

- Computer Science major
- Computer Engineering minor
- Junior 1
- GPA - 3.11

## Projects

**Ford Search Engine** Oct 2019 - Dec 2019

Technologies Used: Java

Cost Savings: \$3-5 million

- Search engine to find data from vehicles
- Saves engineers substantial time to more efficiently make the product better

**Time Machine - Minecraft Plugin** Aug 2020 - Present

Technologies Used: Java, Spigot API

- This is a server administration tool that allows you to backup and restore individual player files and chunks
- This plugin has over 550 total downloads and about 80 active servers using it

**Flappy Bird AI** Feb 2020

Technologies Used: Java, NEAT

- My first game with a custom game engine
- Allows you to let the AI take over and learn to play the game
- The AI uses the NEAT Genetic Algorithm to get better
- The fitness function was lifespan/10 - 1.5\*flaps for the most efficient bird

## Technical Skills

**Most Experienced**

- Java
- HTML
- TypeScript
- CSS
- AngularJS
- SQL
- Full-Stack Engineering
- AWS
- REST APIs

**Familiar**

- Python
- C++
- C#

## Soft Skills

- Adaptability
- Confidence
- Communication
- Team Player

## Activities/Hobbies

In my free time, I usually am either coding, gaming, or building something. I code random projects on the side and have a lot of fun doing so. I also am really into 3D printing and like to build cool things with that. I am also a member of the Zeta Theta A chapter of Sigma Chi.