

# Jonah Irons

[jonahirons@gmail.com](mailto:jonahirons@gmail.com) | (317) 965-6844 | Greenwood, IN | [linkedin.com/jonahirons](https://www.linkedin.com/jonahirons) | [jonahirons.github.io](https://jonahirons.github.io)

## EDUCATION

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### Purdue University

*Bachelor of Science, Computer Science | Minor in Mathematics | Certificate in Music Technology*

**Aug 2023 – May 2027**

*West Lafayette, IN*

- **GPA: 3.36/4.0**
- **Relevant Coursework:**
  - Data Structures and Algorithms
  - Computer Architecture
  - System Programming
  - Software Engineering I
  - Programming in C
  - Object Oriented Programming (Java)
  - Discrete Mathematics

## PROJECTS

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### Simple C Compiler

**Nov 2024 - Present**

- **Description:** A Simple C Compiler utilizing Lex and Yacc. It is able to read and parse C programs and generate the corresponding x86-64 Assembly file for compilation and execution. Certain constraints applied, such as limited variable types and reduced stack space.
- **Role:** Handled Yacc commands for interpretation of C grammar, such as; operations (+, -, \*, /, %), relational expressions (==, !=, <, >), loops, conditional statements, variable declaration and access, and array declaration and access.
- **Technologies Used:** C, x86-64 Assembly
- **Outcome:** Gained understanding and experience with compilers and grammar parsing (specifically through Lex and Yacc), and learned and observed how the stack is utilized during run-time and execution within a program

### Messaging System

**Aug 2023 - Dec 2023**

- **Description:** A program that allows users to communicate with each other, functioning as a messaging system. Employed a standard Java server involving Object Output/Input Stream and prioritized data persistence to ensure a convenient and functional messaging experience.
- **Role:** Worked as part of a four person team where I developed server side operations of the program as well as all standard messaging and account services i.e. account manipulation (creating, deleting, modifying, blocking), communication (sending, editing, and deleting messages), etc.
- **Technologies Used:** Java, Git
- **Outcome:** Received a perfect score and familiarized myself with client-server interaction.

## WORK

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### Meijer

*General Merchandise Team Member*

**Jun 2024 - Present**

*Greenwood, IN*

- Specialize in Customer Service; interact with customers constantly and prioritize customer assistance
- Trained on company technology such as the cash register, team member “Zebra” devices, etc.

### Center Grove High School

*Percussion Staff Member*

**Jul 2023 - Aug 2023**

*Greenwood, IN*

- Taught and Co-Directed the percussion section of the Center Grove High School marching band
- Responsible for structuring practice schedules, preparing for competitions, and overseeing the students

## SKILLS & INTERESTS

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- **Technologies:** Java, C, x86-64 Assembly, HTML, CSS, Javascript, Git
- **Skills:** Communication, leadership, teamwork, problem solving, optimism, flexibility
- **Interests:** Music, reading, fitness, sports, video games, computers, food!