Jonah Irons

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EDUCATION

Purdue University   **Aug 2023 – May 2027**
Bachelor of Science, Computer Science **|** *Minor in Mathematics* **|** *Certificate in Music Technology*   *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

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

Meijer   **Jun 2024 - Present**
General Merchandise Team Member   *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   **Jul 2023 - Aug 2023**
Percussion Staff Member   *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

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