

# Benjamin Saupp

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## **Education**

James Madison University  
Bachelor of Science in Computer Science  
Minor in Mathematics

Harrisonburg, VA  
May 2024

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## **Coursework**

Data structures and Algorithms  
Computer Systems  
Programming Languages  
Calculus III

Algorithmic Design and Analysis  
Web Application Development  
Machine Learning  
Elementary Number Theory

Software Engineering  
Compilers  
Statistics  
Discrete Structures

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## **Work Experience**

### **Research Assistant: Praxis preparation**

*James Madison University, Summer 2023*

- Working in collaboration with CodeVA on a project creating a compiler/web IDE to support teachers that are learning programming for the Praxis exam
- Presented research to JMU peers and faculty September 2023
- Forthcoming Research publication before May 2024

### **Lead Teaching Assistant**

*James Madison University, Summer 2023*

- Helped students with **C**, **Python**, and **Java** projects.
- Supervised teaching assistants during lab hours, facilitating meaningful learning experiences
- Collected student data and brainstormed ideas for improving the program
- Worked both in person and online via Microsoft Teams

### **Student Refugee Coding Camp**

*James Madison University, Summer 2023*

- Established communication with refugee students and taught them how to write simple programs
- Collaborated with other students and professors in guiding refugee students to develop computer literacy

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## **Projects**

### **Praxly ([praxly.github.io](https://praxly.github.io))**

- Website designed for beginners to learn programming
- Features a block based interface that also syncs with an adjacent text interface
- Built from scratch using Node.js, Blockly, and Ace code editor

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## **Skills & Training**

- Proficient in **C**, **Java**, **Javascript**, **HTML**, **CSS**, and **Python**
- Leadership experience and fellowship skills
- Microsoft Office: **Word**, **PowerPoint**, and **Excel**
- Some **Agile** development process experience in class projects