

Cole Williams

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EDUCATION

University of Vermont

Burlington, Vermont

B.S. Computer Science |

Expected May 2028

Relevant Coursework: *Intermediate Programming, Data Structures and Algorithms, Computer Organization, Discrete Structures*

SKILLS

- Programming Languages: Java, JS, Python, Lua, Swift, React, C++
- API: React Native, Node JS, EmailJS, Plaid
- SQL: MySql, MongoDB

PROJECTS

RASPICO-8 | Personal Project

Hardware & Software development

- Connected joysticks, buttons, and an external screen to a Raspberry PI-4 using **GPIO pins**.
- Implemented a **shell script** so that when turned on, the PI-4 would boot up PICO-8
- Mapped out and programmed all inputs for the cabinet using **Lua**

Italian SwordMan | Personal Project

Video Game Development & Software Development

- Developed a simple 2-D platformer game with a basic storyline
- Created the scripts for the game in the language **Lua**, as that is the only language compatible with the PICO-8 software
- Using the tools provided by PICO-8, I created the sprites for the characters, music, sound effects, and the levels for the game.

Flo | Personal Project

iOS App

- Designed an iOS app to help college students with reminders and scheduling, while also providing a free service for a workout app, coming with calorie trackers and workout trackers
- Developing a user friendly and comforting UI using **React Native**, and creating a framework using **Javascript** alongside **Node JS**
- Currently working on a program to push out notifications for the reminders, alongside email verification and password reset. Using **Node JS** to create a database for logins

WORK EXPERIENCE

University of Vermont

Burlington, Vermont Orientation Leader

August 2025

- Working with a team of roughly 200 other Orientation Leaders, managing groups of new and incoming students
- Using Microsoft Teams to interact with incoming freshmen, and organizing big group meetings throughout the week