

# Karl Mathew D. Ramos

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## EDUCATION

**University of Florida**— Gainesville, FL

Graduation Dec 2023

**Bachelor of Science in Computer Science**, Certificate in Artificial Intelligence Fundamentals

Relevant coursework: UX Design, Operating Systems, Program Lang Concepts, Info and Database Sys 1, Intro to Software Engineering, Enterprise Software Eng Practices, AI Fundamentals,

GPA: 3.55

## SKILLS & CERTIFICATIONS

- **Programming Languages:** C++, Java, React, HTML, CSS , JavaScript
- **Technologies:** Git, Firebase, Google Maps API, Processing, Visual Studio Code, IntelliJ, Clion
- **Certifications:** CodePath Intermediate Technical Interview Prep (June 2023 - August 2023), Google Software Product Sprint Participant Prep (June 2022 - August 2022)

## Work EXPERIENCE

**University of Florida – Teacher Assistant for AI Fundamentals** | Gainesville, FL

Jan 2022 – Current

- Assessed and provided constructive feedback on student assignments, fostering effective communication with students to enhance their understanding and progress in the course.

## PROJECTS

**C.A.S. Polymedic – UX Designer and Front-end Developer**

[GitHub](#) | [View Project](#)

- Developed the website using REACT, incorporating features such as embedded Google Maps for location-based convenience, an advanced form enabling easy email communication, and AI Chat support powered by the ChatGPT API.
- Led the conceptualization and implementation of an innovative clinic and pharmacy website, utilizing UX Design methodologies like lean UX Canvas, persona development, and Figma prototype to outline project goals and enhance user experience.
- Utilized: React, Mantine, EmailJS, chatscope, Heroku Chatgpt API, Figma

**Lexical Analysis and Compiler Project - Developer**

- Teamed up with a fellow student to conceptualize and execute a program, designed to conduct advanced lexical analysis on input data, subsequently parsed into an abstract syntax tree through a recursive descent algorithm.
- Launched a collaborative effort with the compiler component, translating input code into executable expressions, producing output results such as returning variables holding calculations like  $2+2=4$ .
- Utilized: Data Structures, Eclipse, JAR, IntelliJ

**The ME Project – Project Manager** | Group 49

[GitHub](#) | [View Project](#)

- Orchestrated a collaborative effort with a team of 3 accomplished students to develop an innovative mental health wellness tracking website, empowering users to store their diary entries securely and promote emotional well-being.
- Initiated the adoption of the agile scrum methodology, orchestrating efficient code reviews, static code analyses, and seamless wireframe and software architecture model designs, ensuring a streamlined and robust development process.
- Utilized: React, Tailwind, Trello, Figma, Firebase, ClickUp, HTML/CSS/JavaScript

**Movie Recommender - Developer** | TheNextWatch

[GitHub](#) | [View Project](#)

- Collaborated with a team of 2 students in the development of a sophisticated command-line interface program that harnessed 70,000 data points to provide personalized movie recommendations using data structures.
- Implemented custom unordered maps and maps without reliance on the standard library by using an AVL Tree
- Utilized: Kaggle, Youtube, Clion, C++, Data Structures