

# Samantha M. Walsh

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## SENIOR CAPSTONE PROJECT

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### TulipAI

Nov. 2023 - Present

*Product Manager and Backend Developer*

*Remote*

- Bridging the gap between technical and non-technical stakeholders, facilitating a cohesive communication process
- Improving the cultural bandwidth of audio AI by fine tuning Meta's Audio Craft model alongside AI scientists
- Defining and prioritizing feature requirements with a focus on aligning strategic goals with stakeholder needs

## WORK EXPERIENCE

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### Florida Gulf Coast University

Jan. 2023 – Present

*Teaching Assistant for Programming I and II*

*Estero, FL*

- Ensuring students comprehensively understand key Object-Oriented Programming concepts
- Assessing and providing targeted feedback emphasizing best practices in design patterns and code structure
- Actively participating in curriculum development discussions, offering valuable insights and opinions

### Advanced Software Products Group

Jul. 2023 – Nov. 2023

*IT Technician / Intern*

*Naples, FL*

- Collaborated with software team to develop a mobile application using Flutter, Android Studio, and Dart
- Gained insights into mainframes development through z/OS, COBOL, and IBM's Z Xplore class with VS Code
- Crafted IT Support skills by learning how to solve common software issues

### Florida Gulf Coast University

Apr. 2023 – Nov. 2023

*Machine Learning Research Assistant*

*Estero, FL*

- Assisted with development of a machine learning model for predicting red tide in the Gulf of Mexico
- Explored impacts of various factors on red tide blooms such as wind speed and direction
- Enhanced proficiency in machine learning by utilizing libraries such as scikit-learn, NumPy, and Pandas

### Florida Gulf Coast University

Apr. 2023 – Aug. 2023

*Teaching Assistant for Data Structures and Algorithms*

*Estero, FL*

- Supported students in small groups to help their understanding of basic data structure and algorithm concepts
- Provided insightful evaluations of student code, delivering constructive advice to enhance coding proficiency
- Curated assignments that ensured a comprehensive understanding of major data structures and algorithms

## EDUCATION

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### Florida Gulf Coast University

Expected Class of 2024

*BS Software Engineering, GPA 3.9*

*Estero, FL*

- President's List
- Member of the Software Engineering Club

## Skills

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Languages: C++, Python, JavaScript, SQL, Dart

Libraries: NumPy, Pandas, SciKitLearn, React, Flutter

## References

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Paul Allen | Professor of Software Engineering at FGCU | pallen@fgcu.edu | (239)-745-4715

Dr. Anna Koufakou | Professor of Software Engineering at FGCU | akoufakou@fgcu.edu | (239)-590-7334

Davar Ardalan | CEO of TulipAI | davar@tulipai.co