Samantha M. Walsh

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WORK EXPERIENCE

Allspire Health Partners   **July 2024 - Present**
Data Analyst Engineer   *Conshohocken, PA*
- Automated monthly data ingestion for AP/PO healthcare finance data in **Python/SQL**, saving **32–52 hours/month**
- Managed automation **project planning**, balancing ad hoc work with recurring tasks, ensuring on-time delivery
- Improved **code security and maintenance** by **standardizing scripts** and refactoring global variables

Florida Gulf Coast University   **Jan. 2024 – May 2024**
Teaching Assistant for Programming I   *Estero, FL*
- Ensured comprehension of **Object-Oriented Programming** concepts in **C/C++** in class sessions and office hours
- Assessed and provided targeted feedback emphasizing best practices in design patterns and code structure
- Actively participated 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 mainframe 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 using **LSTM Neural Networks**
- Explored the impacts of various factors on red tide blooms such as wind speed and direction using **R** and **SQL**
- Enhanced proficiency in **machine learning** by utilizing **Python** libraries such as **scikit-learn**, **NumPy**, and **Pandas**

SENIOR CAPSTONE PROJECT

TulipAI   **Nov. 2023 – May 2024**
Product Manager and Backend Developer   *Remote*
- **Orchestrated Scrum and Agile meetings** and tasks, aligning technical and non-technical stakeholders
- Improved the cultural bandwidth of **Meta's AI Audio Craft LLM** by **data mining** and **fine-tuning** in **Python**
- Employed strategic metrics to prioritize features, aligning stakeholder needs with overarching objectives and goals
- Contributed to code storage decisions, transitioning to Google Cloud for scalability and collaboration

EDUCATION

Florida Gulf Coast University   **Class of 2024**
B.S. Software Engineering, GPA 3.9, Summa Cum Laude, President's List   *Estero, FL*

Skills

Languages: C/C++, Python, Java, JavaScript, HTML, CSS, SQL, Dart, R
Libraries: NumPy, Pandas, Matplotlib, SciKitLearn, Keras, TensorFlow, React, Flutter
Frameworks: MERN (MongoDB, Express.js, React, Node.js), MySQL, PyTorch, HuggingFace, Jupyter
Skills: Text Mining, Natural Language Processing (NLP), Machine Learning, Full-Stack Development
Tools/Technologies: Power BI, Tableau, Excel, AWS, Minitab, Jupyter, Git, VS Code, Google Colab

References

Austin Murray | Business Intelligence Analyst | austin.murray@allspire.org | (724)-996-7824
Paul Allen | Professor of Software Engineering at FGCU| pallen@fgcu.edu | (239)-745-4715
Dr. Cijy Sunny | Professor of Software Engineering at FGCU | csunny@fgcu.edu | (239)-590-7786
Davar Ardalan | CEO of TulipAI | davar@tulipai.co