# TEAM 2 GWINNETT COUNTY PUBLIC SCHOOLS TECHNOLOGY AND INNOVATION DIVISION - BUS MONITORING THROUGH KAFKA

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## Project Plan

We are developing an advanced Real-Time Bus Monitoring System for Gwinnett County Public Schools. The system is designed to enhance student safety and operational efficiency by providing real-time insights into school bus locations and statuses. We plan to utilize Apache Kafka for event streaming, Docker for containerization, and SQL Server for data management. This project represents a significant step forward in the district's transportation monitoring capabilities.

Date (YYYY- MM-DD)	Milestone/ task	Deliverable	Remarks
2024-09-22	Design Document	Design documentation, meeting minutes.	-
2024-10-17	Test Document	Testing documents, meeting minutes, implementation progress report.	-
2024-10-24	Implementation	Source code, code documentation, meeting minutes, user guide, project runnable.	-
2024-11-2	Final Submission	Source code, code documentation, final design documentation, final testing documentation, and user setup guide.	Should contain any additional documentation the sponsor requests.

## Communication

- (Main) Discord chat and voice chat channel
- Microsoft Teams
- Shared Documents
- Github







# Jeffrey Sanderson

#### **EXPERIENCE**

- Java
- Git Version Control
- SQL Databases
- Linux Ubuntu & XTerm

#### **ROLES**

- Database Design & Implementation
- Environment Management
- Monitor Documentation

## Alex Baker

#### **EXPERIENCE**

Web Development: HTML, CSS, JavaScript, Node.js

Database: MySQL, AWS

Programming Language: Java, C#

Projects: C# to SSIS integration, documentation through PowerApps, Salesforce lightning web components

## Amali McHie

## **LANGUAGES**

- Java/C#
- HTML/CSS/JavaScript
- Python

## **TECHNOLOGIES**

- Jira
- Git/GitHub
- VMWare

## Sarah Fashinasi (Team Lead)

## **EXPERIENCE**

- Programming Languages: Java, Python, C#
   (IDEs): IntelliJ IDEA, PyCharm, Visual Studio Code
- Web Development: HTML, CSS, JavaScript
- Media Development: Unity
- Database Management: MySQL
- Graphic Design: Adobe Photoshop, Illustrator, InDesign (Adobe Certified Professional)

# Tyler Hood

#### **EXPERIENCE**

- Java
- C#
- MySQL
- Blazor Server

## **CURRENTLY LEARNING**

- React
- MongoDB
- Full StackDevelopment