JOHANNES JOHNSON
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ACADEMIC QUALIFICATIONS:

- Master of Science in Computer Information Systems (*Currently pursuing*)
  University of Houston - Clear Lake | GPA: 3.11
- Bachelor of Engineering in Electronics and Communication
  Rajalakshmi Engineering College, Chennai | GPA: 8.79

INTERNSHIPS:

I have Completed internship training at NSIC's Technical Service Center at Chennai in Embedded design with Artificial Intelligence. The NSIC under the Ministry of Micro, Small and Medium Enterprises (MSME) provides skill development in high technology, conventional trades, material/product testing across India

ACADEMIC PROJECTS:

- **TITLE:** Car Wash and Repair Management System – A Database-Driven Web Application | **DURATION:** February 2025 – Present | **TEAM SIZE:** 3 |
  TECHNOLOGY STACK: PostgreSQL, Python Django, Bootstrap

  SUMMARY: Developing a database-driven system to streamline customer management, service scheduling, and billing for a car service center.

- **TITLE:** Spectral Analysis of Seashore Minerals by Mineralogical Mapping

  DURATION: November 2023 - April 2024 | **TEAM SIZE:** 3

  TECHNOLOGY STACK: ENVI Software (Satellite Image Processing), GIS Mapping Tools, Python (for data analysis and visualization)

  SUMMARY: The project aims to analyze the composition of minerals located on coastal shores by utilizing their distinct spectral reflectance properties. Through satellite image processing, we can generate spectral reflectance curves for these minerals, enabling us to quantify their presence in specific regions.

  INDIVIDUAL ROLE: I led our project, managing the project timeline creation. With our mentor's guidance, I used ENVI Software for satellite image processing. I created PowerPoint presentations for the three project reviews and drafted the report as well.

- **TITLE:** Colliery Gas Detector

  DURATION: January 2023 – April 2023 | **TEAM SIZE:** 3

  TECHNOLOGY STACK: Arduino (Hardware & Programming), MQ Gas Sensors (Methane, CO, H_2S).

  SUMMARY: The primary objective of the project is to improve safety by detecting potentially harmful gases, such as Methane, Carbon monoxide and Hydrogen Sulphide. Gas detection helps to minimize downtime by detecting gas leaks or other potential hazards.

INDIVIDUAL ROLE: As the primary programmer in our team project, my role centered on utilizing Arduino programming to control and actuate the hardware components of our project.

- **TITLE:** Attendance System using RFID Tags

  DURATION: Jan 2022 – April 2022 | **TEAM SIZE:** 3

  TECHNOLOGY STACK: Arduino UNO (Arduino & Programming), RFID Module (MFRC522), Google Firebase (for cloud storage), Google Sheets API (Data Upload & Management).

  SUMMARY: The RFID Sensor was used to record the attendance of the person in an institution or organization. Arduino UNO was used to read the inputs from the RFID sensor and the data received from the sensor were uploaded in Google Spreadsheet.

  INDIVIDUAL ROLE: I played a pivotal role as the data analyst in our team project. My responsibilities primarily revolved around data collection from various sources.

EXPERIENCE:

- **Alfred R. Neumann Library, University of Houston-Clear Lake**

  Student Assistant - Circulation Desk | October 2024 – Present
- **St. John's Church, New Perungalathur**

  Outreach duties and Volunteer | June 2021 - May 2023
- **LEO Club of Rajalakshmi Engineering College, Chennai**

  Volunteer | Jan 2021 - Dec 2023

TECHNICAL SKILLS:

- **Database:** MySQL, MS SQL Server, SQLite, PostgreSQL
- **Web Technologies:** HTML, CSS, JavaScript
- **Frameworks:** Python Flask, Python Django, **.**NET Core 8 Razor Pages
- **Software Development:** System Analysis & Design, SDLC, Agile Methodology
- **Microsoft Products:** Word, Excel, PowerPoint
- **Hardware & Embedded Systems:** Arduino, Raspberry Pi

WORKSHOPS & TRAINING:

- Successfully completed ARDUINO PROGRAMMING training program organized by Electronics and Communication Department in association with Designers Consortium & Innovation Council of Rajalakshmi Engineering College in the college.
- Participated in Hands-on-training program using Texas Instruments Robotics Kit (MSP432) at Rajalakshmi Engineering College.
- Participated in the Spark AR Labs India Challenge and has successfully created an AR Effect conducted by INCUBATE-IND.