# Jan Wilhelm Sy

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## EXPERIENCES

**Student Intern**
Iraya Energies | Kuala Lumpur, Malaysia
June 2024 – July 2024

- Developed core chatbot functionality and AI system using OLLAMA for AI inference and LlamaIndex for multi-document agent capabilities.
- Implemented Retrieval-Augmented Generation (RAG) architecture.
- Built responsive user interface using Streamlit.
- Containerized complete application using Docker.

## PROJECTS

**BiasX: A Feature-Based Framework for Explaining and Quantifying Gender Bias in Face Classification.**

- Collaborated on data pipeline design and implementation.
- Trained and validated multiple classification models to test framework effectiveness.
- Developed interactive Streamlit frontend

**AIDentifye: Eye Disease Recognition Software**

- Led AI development pipeline, handling data preprocessing, model training, and deployment.
- Developed front-end interface.
- Integrated machine learning models with web app.

**Raya: Unstructured Research Data Chatbot**

- Developed chatbot functionality by utilizing Ollama for AI inference.
- Implemented agentic multi-document approach for unstructured paper inquires.
- Implemented Retrieval-Augmented Generation (RAG).
- Built the user interface

**Kanva: A Collaborative Kanban Board Application**

- Built full-stack React application for collaborative project management with multi-board functionality
- Implemented secure user authentication system using bcrypt for password hashing and JWT for session management

**Vysta: A Movie Discovery and Watchlist Application**

- Developed a full-stack React application for browsing and searching movie information.
- Implemented a login system for managing personal watchlist.

## SKILLS

**Languages:** JavaScript, Python, C
**Web Technologies:** React.js, Node.js, Express.js, HTML, CSS, Streamlit
**Machine Learning:** Convolutional Neural Networks (CNN), Natural Language Processing (NLP)
**Design Tools:** Figma, Canva
**Other:** Git, GitHub, Docker

## EDUCATIONS

**Bicol University**                                                    Legazpi City, Albay
Bachelor of Science in Computer Science, *cum laude*          *August 2021 – June 2025*

**STI College of Legazpi**                                          Legazpi City, Albay
Information Communication Technology                          June 2019 - June 2021