

Joshua JJ Wonder

B.Tech ECE Graduate

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EDUCATION

Karunya Institute of Technology and Sciences

Bachelor of Technology in Electronics and Communication Engineering

CGPA: 6.39

Coimbatore, Tamil Nadu

2022 – 2026

PUBLICATIONS

- **J. J. Wonder**, "EduSync: DSP-Based Engagement Modeling and Vision Analytics in an Edge-Deployed LMS," *2026 4th International Conference on Artificial Intelligence and Machine Learning Applications Theme: Healthcare and Internet of Things (AIMLA)*, Namakkal, India, 2026, pp. 1-6, doi: 10.1109/AIMLA67915.2026.11522309.

TECHNICAL SKILLS

- **Generative AI & Frameworks:** Large Language Models (LLMs), Prompt Engineering, LangChain, Hugging Face, OpenAI APIs, TensorFlow, PyTorch.
- **Programming & APIs:** Python, SQL, C++, FastAPI, Flask, REST APIs.
- **Data Operations:** Data Handling, Data Preprocessing, Cleaning & Annotation, MySQL, PostgreSQL.
- **Cloud & DevOps:** Git, GitHub, Docker, AWS (Solutions Architect), Linux (Arch Linux).

PROJECTS

EduSync: Edge-Deployed LMS & Vision Analytics

Python, LangChain, LLMs, Edge Computing

- Developed a locally hosted AI platform running 4-bit quantized LLMs (Llama 3/4) utilizing Hugging Face models for offline text generation and automated content summarization.
- Applied prompt engineering techniques and AI coding agents to accelerate development and optimize backend Python pipelines for consumer-grade edge hardware.
- Engineered DSP-based engagement modeling and vision analytics for real-time tracking, ensuring clean, readable, and maintainable code.

Credit Calculator Web Application

Python, FastAPI, REST APIs

- Migrated a legacy C-based tool into a modern web application utilizing a fast and scalable RESTful API architecture.
- Designed a responsive UI and implemented efficient data handling processes to troubleshoot and process user information dynamically.
- Established a scalable backend with strong problem-solving techniques, allowing for easy integration with future AI models.

Audio Mixer Application

C++, GTK+, OOP

- Built a desktop GUI application for audio manipulation using Object-Oriented Programming (OOP) principles in C++.
- Implemented complex file handling algorithms to process multiple audio streams simultaneously.

EXPERIENCE

Innovate Intern — Web Development Intern

Remote — Dec 2024 – Jan 2025

- **Full-Stack Development:** Architected "ConvoManage," a conference management platform, utilizing React Native for the frontend and Python for the API backend.
- **System Optimization:** Optimized relational database (SQL) queries and data handling logic to improve application response time, system stability, and data integrity.
- **Deployment & Debugging:** Collaborated with the engineering team to debug software issues, deploy applications, and manage version control via Git & GitHub.

Innovate Intern — AI & Machine Learning Intern

Remote — May 2024 – Jun 2024

- **Computer Vision Implementation:** Engineered a real-time License Plate Detection system using Python and YOLOv7.
- **Pipeline Automation:** Built an end-to-end software pipeline focused on data preprocessing, cleaning, annotation, and model training, adhering to AI engineering best practices.
- **Algorithm Tuning:** Fine-tuned model parameters and experimented with datasets to troubleshoot edge cases and achieve high detection accuracy in varied lighting conditions.

INTERESTS

- **Motorsport Engineering:** Passionate about the technical artistry of Formula 1, specifically the engineering warfare and R&D battles fought behind the scenes to gain split-second performance advantages.
- **Technology & Hardware:** Dedicated to staying on the cutting edge of consumer technology, custom Linux environments, and generative AI trends.
- **High-Fidelity Audio:** Keen pursuit of high-fidelity audio, focusing on the hardware and tuning required to achieve the perfect soundstage and sonic precision.