

Thadeus Cruz Govindapillai

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Profile

Innovative Product Developer skilled in design engineering, site management, and team leadership, with a track record of delivering projects on time and within budget.

Experience

FREELANCE SITE LEAD | CRUZOE INNOTEK | SEPTEMBER 2022 - OCTOBER 2022

- Led a team of 7 members in successfully executing a machine installation project from start to finish.
- Programmed the PLC system and implemented EtherCAT communication protocols for industrial automation.

FREELANCE WEB DEVELOPER | COPYVA | OCTOBER 2024 - DECEMBER 2024

- Designed and developed a user-centric frontend, integrating API calls for seamless functionality.
- Built with React.js and CSS to ensure an intuitive and responsive UI.
- Built and deployed in AWS cloud with optimized network balancing for performance and scalability.

Education

BACHELOR OF TECHNOLOGY IN ARTIFICIAL INTELLIGENCE AND DATA SCIENCE
JANUARY 2022 TO PRESENT | SRI KRISHNA COLLEGE OF TECHNOLOGY, COIMBATORE
CGPA: 8.28 (Academic Rank Holder)

12TH GRADE | APRIL 2021 - MARCH 2022 | NIRMALA MATHA CONVENT SCHOOL, COIMBATORE | ICSE
PERCENTAGE: 93% (School Topper)

10TH GRADE | APRIL 2019 - APRIL 2020 | NIRMALA MATHA CONVENT SCHOOL, COIMBATORE | ICSE
PERCENTAGE: 92.4%

Projects

- Engineered a UV-Based Cotton Cone Defect Identification System with image pre-processing & model development (Field Testing)
- Built a RAG model using open-source LLMs for knowledge retrieval and prompt-guided responses.
- Designed a Stable Diffusion model to generate image series and compile them into GIFs.
- Creating a native handwriting OCR system for Tamil using a Transformer-based model to convert handwritten documents (e.g. Reports) into digital text for easy search and knowledge retrieval. (Ongoing)

Achievements

- Published two research papers on AI models in medical and linguistic domains.
- Winner of Intel Advent of Gen AI Hackathon 2023
- Received a Certificate of Appreciation from IIT Palakkad for developing a high-accuracy diabetes prediction model.
- 5+ wins in various national hackathons
- Participated in 25+ national and international hackathons

Skills & Abilities

- **Machine Learning:** Model Development, Fine Tuning
- **Full Stack Development:** ReactJS, Spring Boot, AWS, REST API
- **Industrial Automation:** PLC Programming, EtherCAT, HMI

- **Programming Languages:** Java, Python, C, C++
- **Data Structures & Algorithms**
- **Soft Skills:** Communication, Problem-solving, Adaptability, Team Player
- **Language:** English, Tamil, Hindi, Malayalam

References

Lucas C

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