

AAYUSH NAIR

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EDUCATION

Vellore Institute of Technology, Vellore
B.Tech - Computer Science and Engineering Final Year

2021 - 2025

EXPERIENCE

Web Developer
Veniso Solutions

Aug 2023 - Oct 2023
Hyderabad, Telangana

- Developed a music application using React and JavaScript, achieving a 30% increase in user satisfaction.
- Integrated seamless audio playback functionality, improving performance by 25%.
- Conducted thorough testing and debugging, reducing reported issues by 40%, enhancing app reliability.
- Designed intuitive user interfaces, prioritizing seamless navigation for a polished user experience.

Software Developer
CrowdUpss

Jun 2024 - Sept 2024
Remote

- Contributed to multiple projects, demonstrating technical proficiency in React.js, JavaScript, Data Structures, C++, and Figma
- Developed a Node.js backend, tested to handle 10,000+ concurrent users for seamless startup collaboration.
- Developed user interfaces that improved user engagement by 15%, contributing to a more intuitive user experience.

Technical Team Member
Mozilla Firefox Club VIT

Mar 2023 - Apr 2024
Vellore, Tamil Nadu

- Designed and developed coding challenges for technical rounds, enhancing the complexity and engagement of an event held during the college cultural fest.
- Collaborated with the web development team to revamp the club's website, improving user experience and functionality.

Core Committee Member
DBQC - The VIT Quiz Club

Mar 2023 - Apr 2024
Vellore, Tamil Nadu

- Curated and published daily quiz questions, maintaining high standards of accuracy and engagement across topics.
- Actively volunteered in organizing and executing a flagship quiz event, ensuring smooth operations during the college's cultural festival.

PROJECTS

C++ Algorithmic Order Matching Engine ([Github](#))

- Implemented an Ultra Low Latency algorithmic order matching engine for financial markets.
- This engine includes functionalities such as managing order books, efficiently matching buy and sell orders and executing trades.

ACHIEVEMENTS

IDEOZEN Hackathon winner, YANTRA 2024: I developed a web application using GenAI and machine learning to assist children with learning disabilities, offering initial diagnoses for disorders like ADHD and dyslexia. The app also provided therapy resources and integrated a game for dyslexia assessment using TensorFlow. ([Link](#))

RESEARCH PAPERS

A Novel RoPE-Enhanced Informer Approach for Accurate Remaining Useful Life Prediction of Lithium-Ion Batteries:

I worked on integrating Rotary Positional Embedding (RoPE) into the Informer model to predict the Remaining Useful Life of lithium-ion batteries, and the resulting RoPE-Enhanced Informer outperformed peer models. **(Submitted to The IEEE Conference on Engineering Informatics 2024)**

An Efficient Hybrid Model for Enhancing Seizure Prediction with Novel CNN and Time Series Transformers:

I worked on a project using a hybrid model of CNNs and Time Series Transformers for epilepsy seizure prediction, demonstrating superior performance in seizure detection. **(Under publication in IEEE's IT Professional magazine)**

TECHNICAL SKILLS

Languages: Java, C/C++, Python, JavaScript, HTML/CSS

Databases: MySQL

Tools: Git, GitHub

Frameworks: Node.js, React.js

Concepts: Machine Learning, Networks, OOPS (Object-Oriented Programming), Operating Systems, Data Structures and Algorithms (DSA)

EXTRA-CURRICULAR ACTIVITIES

- Reached the VIT Premier League (VITPL) Football Tournament semifinals.
- Secured top 5 position in the Sports category as part of the quizzing team at BITS Pilani, Hyderabad.