Jithu Johan Jose

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Career Objective

Driven and ambitious student eager to secure an entry-level position within this organisation where I can continuously enhance my knowledge, refine my skills, and gain invaluable experience. With a passion for learning and a strong work ethic, I am committed to contributing to the success of the team and the overall growth of the company. My adaptable nature and ability to collaborate effectively make me well-suited to thrive in diverse work environments. I am excited about the opportunity to leverage my talents and dedication to make meaningful contributions while embarking on a fulfilling career journey.

Education

Government Engineering College Idukki   **Sep. 2020 – 2024**
Bachelor of Technology in Computer Science & Engineering   *Idukki, Kerala*

Relevant Course

Python for Data Science   **July- August 2023**
NPTEL Online Certification   *4 week course*
- Indian Institute of Technology Madras

Projects

LC3 Enhancement using DNN | *Python, Rust, Machine Learning*   **January 2023**
- Currently working on this project.
- Improving the perceptual quality of LC3 audio encoded at low bitrates, where spectral holes lead to significant audio degradation. This project aims to leverage deep learning techniques to reconstruct missing spectral components and enhance the listening experience.
- MDCT-domain enhancement directly tweaks the quantized spectral data within the LC3 codec itself to fill in spectral holes.
- Convolutional Neural Networks are used to analyze and manipulate the decoded audio to suppress artifacts and enhance details.
- Generative models learn the underlying distribution of high-fidelity audio and generate missing spectral content based on the received low-bitrate LC3 data.
- Post-filtering estimate masks to selectively adjust specific frequency bands in the decoded audio.
- This project leverages deep learning techniques implemented with PyTorch library as well platform support dependencies from a program for audio codecs replicated in Rust.

DataLabs | *Node.Js, Express.Js, Javascript*   **June 2022**
- Software based solution for easier handling of lab stocks inside the digital laboratories.
- This web-based inventory management system offers a comprehensive solution for laboratory stock management, by replacing manual data entry and record keeping with a digital workflow, the system streamlines processes and minimizes the risk of human error. Real-time data visualization empowers informed decision-making regarding stock levels, purchasing, and resource allocation. Ultimately, this translates to enhanced data accuracy and reliability, fostering a more efficient and cost-effective laboratory environment.
- Frontend — HTML, CSS, and JavaScript for a user-friendly and intuitive interface.
- Backend — Node.js and MySQL for a robust and scalable framework.
- Source Code — https://github.com/RoyalewidCheese/Mini-Project.git

Flight Reservation System | *Java, MySQL*   **January 2022**
- Designed and implemented a flight reservation system using Java for the backend and MySQL for the database.
- Incorporated essential user functionalities such as flight search, booking, and user management.

Technical Skills

Languages: Java, Node.Js, HTML/CSS, JavaScript, MySQL
Developer Tools: Visual Studio Code, Eclipse, Netbeans
Technologies/Frameworks: Linux, Git, GitHub, Adobe Photoshop, Adobe XD, Figma

Leadership / Extracurricular

Brainovision Ltd   **16 May - 20 Jun 2023**

Intern   *Government Engineering College Idukki*

- Web Development in Django.

- Having undertaken a web development project and grasped Django basics.

- Culminating project: Designed and built a e-Shopping website.

ASAP Kerala   **2022 − 2023**

Student   *Government Engineering College Idukki*

- Awarded scholarship for design program at ASAP Kerala.

- Completed comprehensive Web UI/UX design course, covering fundamentals to advanced concepts.

- Culminating project: Designed and built a portfolio website showcasing design concepts, wireframes, and UI mockups.

- Live work available for review on Behance Profile — https://www.behance.net/johanroyale

Technoship Cell   **2021 − Present**

Member   *Government Engineering College Idukki*

- Member of this technical club of the college since 2021.

- Member of Team Faux (A Team for CTF Competitions under Technoship Cell)

- Participated in events based on Cyptography, Web Exploitation & CTF, and Web development.

IEDC   **2022 − Present**

Marketing Officer   *Government Engineering College Idukki*

- I previously served as a Copywriter at IEDC.

- Member of IEDC GECI.

- Actively been a part of Executive Committee and conducted several events.

- Participated in various events, workshops, competitions conducted by IEDC.