THUSHAN MALAKA RANASINGHE

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Skills

- **Programming Languages**: Python, Java, C++, PHP, JavaScript, TypeScript
- **Databases**: MySQL, MongoDB, SQLite
- **Web Technologies**: CSS, HTML, React, Node.js, Express, PHP
- **Tools & Methodologies:** GitHub, Git, Jira, Agile

Education

Bachelor of Science in Computer Engineering

University of Jaffna

Projects

- **React Native Mobile Application** :
  Developed a mobile application using React Native, integrating Firebase Authentication for secure user login, registration and user profile management. Utilized the Game of Thrones API to dynamically display character information, ensuring smooth navigation and responsive UI design.
- **Lab Booking System** :
  Contributed as a Senior Software Developer to a lab booking system built with the MERN stack (MongoDB, Express, React, Node.js). Developed both frontend and backend features, ensuring a clean design and robust system functionality.
- **Light Weight Facebook** :
  Built a basic social networking platform using PHP and MySQL, implementing core functionalities such as friend management and group creation. This project provided hands-on experience with backend development and database management.
- **Face Detection** :
  Created a custom CNN model and fine-tuned a pre-trained VGG16 model to classify real and fake faces. This project involved advanced machine learning techniques and computer vision principles.
- **Gesture Recognition** :
  Developed a real-time gesture recognition system using MediaPipe and a feed-forward neural network. Optimized for real-time performance and efficient hand gesture classification.
- **Number Identifier** :
  Developed a machine learning model to accurately recognize and classify handwritten digits, and created a comprehensive Jupyter Notebook to demonstrate the training and validation process.
- **AIML Assistant** :
  Developed a voice-activated assistant using Python and AIML, capable of performing simple tasks and engaging in basic conversational interactions.
- **Workload Prediction in Cloud Computing** :
  Conducting research on improving workload forecasting in cloud computing, investigating whether a Temporal Convolutional Network (TCN) combined with an attention mechanism offers superior performance.

Certifications and Awards

- **Introduction to Web Development (Aug 2020)**
- **Python Data Structures (Sep 2020)**
- **Google IT Support (Nov 2020)**
- **IEEE Xtreme 17.0 (Oct 2023)**
- **IEEE Xtreme 16.0 (Oct 2022)**

References

Dr. (Mrs.) J. Jananie
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