REGUNATHAN V

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SUMMARY

Confident and driven Software Developer with a strong foundation in design principles and programming languages. A recent Computer Science Engineering graduate with a proven track record of leading innovative projects and contributing to impactful solutions. Adept at web design, data structures, algorithms, and database management systems, with a demonstrated ability to adapt and thrive in dynamic environments.

TECHNICAL SKILLS

Programming Languages: Java, Javascript

Web Technologies: Html, Css, React

Version Control: Git, Github

PROFESSIONAL EXPERIENCE

PRECISE KNOWLEDGE TRACING MODEL FOR FUTURE EXERCISE PREDICTION ACCURACY   Nov 2023 - May 2024

Team Leader https://drive.google.com/file/d/18xqnrrtnlxc0FvB46W7K-FSS7mY_SEf0/view?usp=drive_link

Developed a machine learning-based system to predict student performance based on historical learning data and relevant prior knowledge. Enhanced to improve prediction accuracy by 8% over the previous FGKT (Fine Grained Knowledge Tracing) method.

Accomplishments:

- Updating learner's knowledge state and Predicting learner's correctness of next exercises.
- Precise knowledge tracing (PKT) that contains two types of difference from exercise and from prior knowledge.
- Analyzed and processed the ASSISTments 17 dataset, optimizing model parameters to achieve the following performance metrics:test_auc:0.8062, test_acc:0.7454, test_loss:0.5066 and RMSE:0.411030.

A CLOUD-ASSISTED RELIABLE TRUST COMPUTING SCHEME FOR DATA COLLECTION IN INTERNET OF THINGS   Feb 2023 - May 2023

Team Leader https://drive.google.com/file/d/19J0NSlxtjXJvp6tD47_dhnf55qDxVhPf/view?usp=sharing

CRTC scheme can effectively identify trustworthy ISDs and improve data collection efficiency. Moreover, we optimize the path planning algorithm for UAVs to reduce flight distance and improve data collection efficiency.

Accomplishments:

- To maximize the success rate of data collection while ensuring security performance.
- Maximize the ratio of node trust verification and using ant-colony algorithm.
- Achieved a 40% reduction in intermediate nodes, processing 119 out of 300 nodes in 2 minutes and 50 seconds, with an average iteration time of 1.43 seconds.

MUSIC PLAYER APPLICATION   https://regunathan-v.github.io/music/ **July 2024**
Front-End Developer

Developed a fully functional music player with an interactive UI that includes play/pause, next/previous, shuffle, repeat, and volume control features.

Accomplishments:

- Implemented a favorites system using Local Storage for persistent data storage, allowing users to save and access favorite songs across sessions.
- Integrated a dynamic search feature for songs based on title and artist, enhancing user interaction and ease of navigation.

DYNAMIC PORTFOLIO WEBSITE https://regunathan-v.github.io/_reguporfolio/ **Sept 2024**
Web Designer & Developer

Designed and developed a fully responsive and interactive personal portfolio website to showcase my projects, skills, and blog posts.

Accomplishments:

- The website is crafted to deliver an engaging user experience through smooth animations, intuitive navigation, and detailed project descriptions.
- Dynamic and Responsive Layout adjusts seamlessly across devices (desktop, tablet, mobile), ensuring optimal user experience.

EDUCATION

University College of Engineering Tindivanam **Nov 2020 - June 2024**
Bachelor of Engineering in Computer Science & Engineering
CGPA: 77% (No History of Backlog)

Sambaviga Hr.sec School,Sivaganga **July 2018 - March 2020**
Higher Secondary Education - Math Computer
Percentage:66.3%

St.Joseph's Matriculation School,Sivaganga **June 2017- April 2018**
Secondary Education
Percentage:81.4%

CERTIFICATIONS

- Javascript | LetsUpgrade | LUEJS07220611
- HTML & CSS | LetsUpgrade | LUEHTML08220638
- Python | LetsUpgrade | LUEPY08220506
- Successfully completed a Python Internship at Nexgen Technology, Puducherry.

LEADERSHIP & ACHIEVEMENTS

- Captain of the college Kabaddi team, showcasing exceptional teamwork and strategic leadership.
- 1st Prize Winner in the College-Level Symposium for web developer.
- Secured 2nd place in a Zonal Chess Tournament, demonstrating analytical thinking and competitive excellence.

I hereby declare that all the information provided above is true and accurate to the best of my knowledge and belief.

Place: **Yours Sincerely**

Date: (REGUNATHAN V)