Nitesh Duraivel

✉ niteshduraivel@tamu.edu | ✉ niteshduraivel@gmail.com | 📱 +1 (832) 732-0075

🐙 github.com/niteshduraivel | 🔗 linkedin.com/in/niteshduraivel

Education

Texas A&M University (CSCE) — Expected graduation date: Dec. 2024
B.S. in Computer Science and Technology — *GPA: 3.055*
Relevant Courses: Artificial Intelligence (Python), Software Reverse Engineering (Assembly & C), OOP (C++),
Programming Studio (JavaScript & React), Algorithms and Data Structures I and II (C++)

Experience

VayuShakti — Jun. 2023 - Aug. 2023
Software Engineer — *Python*

- Contributed to IoT Integration: Played a key role in integrating IoT technologies to the VayuShakti platform, utilizing Python for data collection and analysis, and enhancing real-time health monitoring for users.
- Development Support: Actively participated in the development of the VayuShakti app using Python, Microsoft Azure, and AI technologies to create personalized yoga regimes, promoting user health, and wellness.

M/S Avenir International Engineers and Consultants — Jun. 2019 - Aug. 2019
Network and Security Intern — *CAD*

- Three Months Internship during Summer vacation in Internetwork Technology and gained practical and technical training on Structured Cabling, Network Security, and Data Center at the basic level.
- Received certificate of internship from the Chairman Mr. Mohammed Al Dosari Advance CAD program for engineering applications.

Projects

Sudoku Solver — Jul. 2023
Designed user-friendly Sudoku Solver interface with efficient backtracking — *Python*

- Engineered an efficient Sudoku Solver in Python, employing backtracking algorithms, constraint checking, and forward checking techniques.
- Employed Human-Computer Interaction (HCI) principles to design an interactive PySimpleGUI interface, enhancing user experience and usability.

Tic-Tac-Toe Game — Mar. 2023
Created user-friendly Tic-Tac-Toe game emphasizing intuitive design — *Python*

- Developed a tic-tac-toe game with an n-dimensional grid using Python, showcasing proficiency in data structures and algorithms.
- Improved user experience with more intuitive and user-friendly tic-tac-toe by integrating HCI principles and creating an interactive PySimpleGUI interface.

POS System User Interface Innovation — Apr. 2023
Led cloud POS development, optimizing efficiency, and customer engagement — *Java, JavaScript, React*

- Led team in developing a cloud-based POS system with GUI for orders and inventory management, resulting in improved efficiency and customer satisfaction.
- Innovated and improved successful POS system with integrated self-serve ordering, Google APIs, and accessibility-focused UI, resulting in enhanced user experience and increased customer engagement.

Skills

Languages:
C++, Python, JavaScript, Java, React, SQL, HTML, LaTeX, Haskell, Scheme

Technologies & Tools:
Microsoft Office, Git, Linux

Certifications:
Certified in Artificial Intelligence for Everyone (deeplearning.ai) and Introduction to AI and IoT (simplilearn).