ASWIN TONY KANIKAIRAJ
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EDUCATION

Syracuse University, College of Engineering & Computer Science, Syracuse, NY   May 2025
M.S. Computer Science
Relevant Coursework: Computer Architecture | Assured Programming and Formal Methods | Introduction to Machine Learning and Algorithms.

Sri Sivasubramaniya Nadar, Dept. of Computer Science & Engineering, Chennai, India   May 2023
B.E. Computer Science and Engineering
Relevant Coursework: Introduction to Machine Learning, Artificial Intelligence, Programming in C, OOPs using Java, DBMS, UNIX and Shell Programming, Operating System, Software Engineering, Mobile Computing, Graphics and Multimedia, Data Structures, Foundation of Data Science.

PROJECTS

Concept Detection and Caption Prediction   August 2022 – May 2023
- Devised and implemented deep learning model for automated medical image concept detection and report generation.
- Improved clinical workflow by streamlining report preparation and providing decision support.
- Succeeded to enhanced patient care through accurate and efficient medical image analysis.

Plasma Donor Application   August 2022 – December 2022
- Developed a cloud-based plasma donation platform connecting patients with donors to facilitate life-saving treatments.
- Ensured secure data management and real-time communication within the cloud database for efficient plasma donation.

Social Network Analysis   August 2022 – December 2022
- Analyzed Co-Authorship networks, visualized data in various layouts, and conducted in-depth centrality analysis.
- Utilized community detection algorithms to identify and interpret network communities within collected datasets.
- Demonstrated strong teamwork and data analysis skills in comprehensive examination of complex datasets and network structures.

Mobile Application Development   August 2022 – December 2022
- Developed an engaging number-guessing application using Android Studio, enhancing user interaction through hints.
- Exhibited proficiency in mobile application development while creating an interactive and enjoyable guessing game for users.

Research Publication Management System   March 2022 – July 2022
- Collaborated with Computer Science department faculty members to gather required dataset.
- Designed the user-interface of application using ReactJS and backend with NodeJS.
- Employed MongoDB as database solution.

Cricket Management System   April 2018 – May 2019
- Gathered comprehensive statistics for a cricket management system.
- Devised system in C++ with built-in graphics to create an interactive and visually engaging user experience.
- Collaborated closely with a school professor to successfully complete project, demonstrating teamwork and mentorship.

WORK EXPERIENCE

Intern, Reddington Pvt. Ltd., Remote   May 2022 – Jul 2022
- Constructed a strong grasp of cloud computing concepts and best practices through hands-on experience along with sales team.
- Utilized both AWS (Amazon Web Services) and Azure cloud platforms for demonstrating versatility in cloud technology.
- Acquired proficiency in cloud deployment, resource management, and cost-effective solutions while working on AWS and Azure platforms.

TECHNICAL SKILLS/CERTIFICATIONS

Certifications: Coursera – Introduction to HTML, Introduction to CSS, Introduction to JavaScript, NPTEL – Introduction to Industrial Internet of Things, Design and Implementation of Human-Computer Interfaces
Programming Languages: Python, C++, C, SQL, Java, HTML, JavaScript, CSS, ReactJS, NodeJS, SQL
Database Management: MongoDB
Software: MS Excel, MS Word, MS PowerPoint

LEADERSHIP EXPERIENCE

Instincts, Event Management Team   January 2023 – May 2023
- Showcased event planning and coordination expertise in delivering memorable experiences for 1000 students.

ACM PR Team, Deputy Head   August 2021 – August 2022
- Demonstrated strong leadership and organizational skills in coordinating and executing public relations initiatives.

Youth Red Cross, Volunteer   January 2019 – December 2020
- Participated in humanitarian and community service initiatives.