SANJANA SHIVANANDA

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Education

Arizona State University   Aug 2023 – May 2025
Master's in Computer Science   *Tempe, Arizona*

Dayanada Sagar College of Engineering   Aug 2018 – Aug 2022
Bachelor of Engineering in Information Science and Engineering   *GPA:3.52/4*

Experience

PricewaterhouseCoopers Acceleration Centers   Sept 2022 – Jul 2023
Associate   *Bangalore, Karnataka*
- Collaborated on Cloud and Digital Platform's Insurance Enabling Technologies, implementing Guidewire-driven interfaces, reducing support issues by 30%, and enhancing system efficiency by 20%.
- Automated software testing processes using Katalon, slashing testing time by 30% and bolstering software quality, leading to a noteworthy 12% decrease in post-release defects.
- Cultivated global client interactions, adeptly fostering collaboration with clients from diverse geographic backgrounds.

Kaatru - Indian Institute of Technology, Madras   Apr 2022 – Aug 2022
Web Development Intern   *Remote*
- Engineered real-time air quality websites using the MERN stack, incorporating Chart.js for data visualization and Leaflet for interactive maps, leading to a 70% increase in data accessibility.
- Spearheaded the development of user-friendly websites and interactive dashboards, enabling real-time data download and visualization, leading to a significant 60% increase in user engagement.
- Mentored and guided a team of 4 interns, fostering professional growth and achieving a 40% increase in productivity through weekly code reviews and collaborative troubleshooting sessions.

Campk12   Jul 2020 – Sept 2020
Instructor   *Remote*
- Orchestrated comprehensive programming training sessions for high school and middle school students, nurturing students' coding passion while imparting programming fundamentals in JavaScript and Python; mentored over 50 students.
- Coordinated curriculum development to align with the latest industry trends and educational standards, improving curriculum relevance by 30%.

Projects

Mood based Music Recommendation System:Viby | *Python, Flask, MERN Stack*
- Engineered a music recommendation system recognizing the user's emotional state and mitigating negative emotions during interactions with the chatbot.
- Implemented Machine Learning and NLP algorithms using Python and deployed the solutions using Heroku.
- Constructed a Web Application using the MERN stack to enhance communication between users and the chatbot.

Smart Door Lock: Facial Recognition and Security | *Python, OpenCV, Discord Bot*
- Crafted an IoT-based smart door lock system, bolstering domestic security.
- Employed HaarCascade and Local Binary Pattern Histogram on an unbiased database for facial recognition.
- Leveraged Discord Developer Portal to construct a chatbot for Raspberry Pi sensor-triggered alerts.

Technical Skills

Languages: Python, Java, C++, JavaScript, Dart
Web Development: HTML, CSS, JavaScript, ExpressJS, NodeJS,ReactJS, Bootstrap, Material UI, ChartJS
Database Management System: MySQL, MongoDB
Development Tool: VS Code IDE, Git & GitHub, Postman, WordPress
AI/ML Libraries: Numpy, Pandas, Scikit learn, OpenCV, Keras

Achievements and Extracurricular

- Received the "Best Innovative Project" award out of 30 teams for the Mood-based Music Recommendation System at DSCE Open Day.
- Led DSCE Literary Club, organizing captivating events and hosting high-profile gatherings as the Master of Ceremonies for 800+ attendees, ensuring flawless execution and exceptional guest experiences.
- Volunteered 100+ hours, enhancing educational facilities for underprivileged children and reducing mid-day meal wastage by 20%.