SAI TEJA

Kent OH | +1 2342385184 | saiteja0704@gmail.com | LinkedIn | Hackerrank | GitHub

EDUCATION

KENT STATE UNIVERSITY Masters in Computer Science, Cumulative GPA : 3.83/4 Dec 2024

- **Coursework:** Web Development, Machine Learning and Deep Learning, Design and Analysis of Algorithms, Big Data Analytics, Advanced Database System Design, Internet of Things (IoT), Computational Health Informatics, Digital Forensics.

JNTUH Bachelors in Computer Science, GPA : 8.1/10 Jul 2021

TECHNICAL SKILLS

- **Languages:** Java, Python, C/C++, C#, JavaScript, PHP, HTML, CSS, Node.js
- **Frameworks:** Spring Boot, Django, Flask, RESTful APIs, Camel
- **Databases:** MySQL, MongoDB, RDBMS
- **Tools:** IBM BPM, OpenShift, Docker, Git, Selenium, TestNG, Node-Red
- **AI/ML Technologies:** PyTorch, TensorFlow, Keras, OpenCV, YOLO, CNN, R-CNN, ResNet, EfficientNet
- **Data Visualization:** Matplotlib, Seaborn, Perspective

WORK EXPERIENCE

KENT INDIAN ASSOCIATION Kent, OH

President: Leadership, Project and Event Management, Public Speaking, Conflict Resolution, Adaptability, Strategic Planning Jan 2024-Dec 2024

- Supervised a diverse team of 25 graduates and undergraduates to successfully organize over 10 university-level events, engaging 600+ international and domestic students, fostering inclusivity and cultural exchange.
- Served as a panelist at the "Coalition Building in a Divided World" conference, collaboratively hosted by Miami University, Bowling Green State University, and Kent State University, where I shared strategies for supporting international students and enhancing their settlement experiences.
- Administered event logistics, budget, planning, collaborations with other organizations and communications to ensure successful community events.

DARK HORSE DIGITAL SOLUTIONS India

Software Developer: Spring Boot, MVC, RESTful API's, POJO's, DAO's, OpenShift, Apache Camel, IBM BPM, IBM Paas May 2021- Dec 2022

- Mastered Spring Boot concepts and implemented Model-View-Controller (MVC) architecture to improve the scalability by 30%.
- Successfully created and monitored 25+ APIs, demonstrating proficiency in web development and API testing.
- Designed and enforced 10+ POJOs to represent data structures, enhancing code modularity and maintainability.
- Engineered Data Access Objects (DAOs) to interface with databases, ensuring efficient data retrieval and manipulation.
- Spearheaded REST APIs using Apache Camel and deployed on OpenShift to improve service response by 20% for clients in the UAE.
- Led the development and deployment of Aadhar seeding and PAN verification systems for 20,000+ users on IBM BPM, ensuring 100% uptime.
- Managed 7 policy lifecycle of insurance using IBM PaaS, creating services, assigning teams, and optimizing performance for multiple databases.

DXC TECHNOLOGIES India

Automation Testing Engineer: **Selenium, TestNG** Nov 2020 - May 2021

- Tested and constructed an innovative testing algorithm using Selenium and TestNG suite ultimately optimizing the test coverage and efficiency.
- Automated web page interactions using Selenium to retrieve YouTube video comments based on user input, showcasing 40+ user test case scenarios.
- Integrated TestNG with Selenium WebDriver to perform parallel testing, reducing overall test execution time by 30%.
- Configured and managed end-to-end test automation pipelines, utilizing TestNG for regression functions and integration tests across various platforms.

INTERNSHIP India

Smart Bridge: AWS, S3, IBM Watson Assistant, IBM Watson Discovery, Node-Red May 2020 - Aug 2020

- Developed an AI-powered chatbot using IBM Watson Assistant and Node-Red, improving customer query handling with over 80 prompts.
- Integrated advanced document understanding with IBM Watson Discovery, streamlining data extraction and improving query resolution accuracy by 75%.

JP Morgan: Python, Nodejs, HTML, CSS, JavaScript Jun 2019 - Aug 2019

- Gained hands-on experience in optimizing Financial Data Feeds, ensuring accurate and real-time data processing for improved decision-making.
- Enhanced user experience and insights via perspective to present financial data interactively for multiple web development and visualization projects.

PROJECTS

Image Classification and Segmentation: Python, OpenCV, Seaborn, Matplotlib, TensorFlow, Keras, PyTorch

- Devised deep learning models for image classification and segmentation using Chest X-Ray and Kvasir-Segmentation datasets, significantly improving pneumonia detection accuracy.
- Utilized CNNs and segmentation algorithms, achieving an IoU score of 0.9130 and a Dice Index score of 0.1277 for gastrointestinal tract image segmentation.

Communication through Gestures: Python, TensorFlow, CNN, ReLU, Softmax, Adam Optimizer, Max Pooling

- Developed and implemented a convolutional neural network (CNN) for real-time image classification of human gestures, achieving an overall accuracy of 85.86% on the gestures dataset, enhancing applications in sign language recognition and human-robot interaction.
- Achieved precision, recall, and F1 scores of 0.867, 0.859, and 0.855 respectively, demonstrating a well-balanced model performance and improving reliability in gesture recognition tasks, thereby advancing capabilities in virtual reality gaming and interactive systems.

Idea Book: Python, Django, Django REST Framework, Wamp, Web Technologies, MySQL Django ORM, Git

- Designed and implemented a robust database architecture using MySQL on a WAMP server, facilitating the storage and management of student and faculty records, with features for user authentication and data validation to ensure secure access to the web application.
- Developed a user-friendly platform for idea submission, enabling students and faculty to post, comment, and interact with ideas, while employing relational database principles to manage data relationships through primary and foreign keys for efficient data retrieval and manipulation.

No-Due Digitization: HTML, CSS, Bootstrap, MySQL, and PHP for efficient functionality

- Created a web application and deployed in collaboration with the incubation cell for streamlined no-due stamp processing, enabling students to submit queries online to various departments, significantly reducing wait times and improving operational efficiency for both students and staff.
- Implemented a unique query processing system that verifies stamp legitimacy through generated IDs, ensuring a seamless experience while enhancing the accuracy and speed of stamp issuance, ultimately facilitating timely access to hall tickets for students.

Third Eye: **Python, Pytesseract, RPA, OpenCV, Pillow, TensorFlow, PyTorch, YOLO, Keras**

- Executed an RPA-driven image processing solution that uses live traffic camera feeds to identify individuals not wearing helmets, automating the detection and reporting of violators. Trained the model on a diverse dataset of over 600 riders, both with and without helmets.
- Applied a deep neural network (DNN) to classify helmet usage, optimizing layer configurations and confidence thresholds to achieve an accuracy of 75% in identifying non-compliant individuals.