

SASI KANDURI

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EXPERIENCE

Office of Water Programs - California State University

July. 2023 – Present

Applications Developer

Sacramento, USA

- Designed and developed web applications using libraries like Flask, SQLAlchemy, Pandas, and Matplotlib in Python for backend microservices, and React for responsive UI/UX, enabling over 5,000 state consultants from the California Department of Transportation and State Water Board to conduct analysis, operations, and water quality monitoring.
- Developed an internal Python library in collaboration with water research scientists to perform scientific and statistical analysis on diverse water quality and management time-series datasets.
- Implemented a pub-sub system using RabbitMQ for various microservices within the organization.
- Developed python scripts to be scheduled as production jobs and workflows to deliver water sampling schedules and water quality results to over 4,000 water systems.
- Leveraged T-SQL programming to create procedures, triggers, and database scripts within MSSQL Server for various data workflows.

Aaseya

Aug. 2019 – Jun. 2022

Software Engineer

Hyderabad, India

- Contributed to web application development, database management and requirement analysis for judiciary services for the Ministry of Justice, Saudi Arabia.
- Implemented crucial software modules in the application for court operations with sensitive data like hearings, case registration and admin tools on the PEGA platform for low-code software.
- Developed secure REST APIs using Java Spring Boot to facilitate the exchange of court data among various entities within web-based court management system.

Virtusa

Aug. 2017 – Jun. 2019

Software Engineer

Hyderabad, India

- Worked on design and development of web services by implementing key modules within a large-scale web system for the Andhra Pradesh state government using PEGA.
- Integrated the CCAvenue payment gateway into the Education and Real Estate Regulatory Authority modules using Java and PEGA, streamlining transactions for services such as examination scheduling and real estate regulatory fee payments.
- Implemented a multi-participant claim processing workflow in PEGA for AIG, managing database integration and API calls to enable operations.

PROJECTS

Brain Tumor Detection | Image Classification, PyTorch, Python, React

- Developed a web application using React and Python that processes MRI scans to classify three types of brain tumors.
- Utilized advanced image classification techniques such as Vision Transformers, Fast-RCNN, and YOLO for models trained with datasets of T1-Weighted MRI scans.
- The interface enables users to upload MRI scans for diagnostic prediction and ingests the results back into the dataset facilitating real-time training and evaluation, ensuring continuous improvements in precision and robustness.

SpotifAI | LangChain, Web Development, AWS, Docker

- Developed a web application that leverages the Spotify Web API, enabling users to authenticate through Spotify OAuth, view their playlists and explore their music data through an intuitive React-based interface.
- Implemented a chatbot feature leveraging LangChain Agents with LLMs to provide personalized analysis and insights into users' playlists.
- Deployed the application on AWS with a simple pipeline created with AWS CloudFormation.

EDUCATION

California State University, Sacramento

Aug 2022 – Dec 2024

Master of Science in Computer Science

Sacramento, USA

CVR College of Engineering

Aug 2013 – Apr 2017

Bachelor of Technology in Information Technology.

Hyderabad, India

SKILLS

Languages: Python, Java, C++, HTML/CSS, JavaScript, Php, Linux.

Developer Tools/Frameworks: Git, Docker, AWS, PEGA(v7.6 - 8.0), VSCode, IntelliJ, Maven, Spring boot, Android Studio, Tensorflow, pyTorch, React, Flask, GraphQL, Pandas, PySpark, MSSQL, AWS, MongoDB, Langchain.