

# SASI KANDURI

sasik.kanduri@gmail.com | linkedin.com/in/sasi-kiran-kanduri | (947) 243 - 5008

## EXPERIENCE

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### Office of Water Programs, Sacramento State

July 2023 – Present

Graduate Student Intern - Web Developer

Sacramento, USA

- Working on the development and maintenance of web applications that enable cost-effective solutions for protecting and enhancing water resources and public health.
- Designed and implemented backend microservices in python leveraging frameworks like flask, pandas and matplotlib for data manipulation, retrieval, statistical analysis and data visualization in storm water analytics applications for the California Department of Transportation.
- Handled database including creating complex procedures, triggers, and tables, as well as performing database rollbacks when necessary.
- Worked on user interface and experience for the application using React.

### Aaseya

Aug 2020 – Jun 2022

Software Engineer

Hyderabad, India

- Worked on web application development, database and requirement analysis for the judiciary services of the Ministry of Justice, Saudi Arabia.
- Developed REST APIs to facilitate communication with external services for the exchange of court data.
- Built various modules like hearings, case registration and admin tools in the application using Java and PEGA platform.

### JK Technosoft

Jan 2019 – Aug 2020

Software Engineer

Andhra Pradesh, India

- Worked for E-Pragati, a state government organization for development and maintenance of web based solutions for government services.
- Developed software modules for Education and Real Estate Regulation departments, using Python for API development and the PEGA platform for low-code software.

## EDUCATION

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### California State University, Sacramento

Aug. 2022 – Present

Master of Science in Computer Science. GPA: 3.58

Sacramento, USA

### CVR College of Engineering

Aug. 2013 – Apr. 2017

Bachelor of Technology in Information Technology. GPA: 3.24

Hyderabad, India

## SKILLS

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

**Developer Tools/Frameworks:** Git, Docker, VSCode, IntelliJ, Maven, Spring boot, Android Studio, Symfony, Tensorflow, pyTorch, React, Flask, Pandas, PySpark, MSSQL, AWS, MongoDB.

## PROJECTS

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### Brain Tumor Detection | Deep Learning, TensorFlow, Python, Flask, MLOps

- Web application developed with React and Python that can take MRI scans and classify three types of brain tumors.
- Used image classification techniques like Convolutional Neural Networks, Vision Transformers, Fast-RCNN and YOLO for model training.
- The interface enables to upload MRI scans, predicts the diagnosis and incorporate results back into the dataset facilitating real-time training and evaluation.

### Hash-based Proof of Stake | Blockchain, Consensus Protocols, Python, p2pnetwork, Sockets, Multithreading.

- Developed an innovative blockchain prototype with a novel proof-of-stake based consensus algorithm, utilizing python and frameworks like p2pnetwork and sockets to ensure efficient and secure transactions.
- Engineered robust RSA encryption within the blockchain system to enhance security measures, ensuring the integrity and confidentiality of transaction data across the peer-to-peer network.

### Social Network | Distributed Computing, AWS, Docker, Spring Boot, Encryption, React.

- Developed a web application with a distributed system architecture, separating the storage of user data like posts and comments from the application server to a dedicated AWS-hosted data server.
- Implemented backend services with Java Spring Boot, used Diffie-Hellman key exchange asymmetric encryption for security, and crafted the frontend using the React library.