

# SASI KIRAN KANDURI

947-243-5008    sasik.kanduri@gmail.com    <https://www.linkedin.com/in/sasi-kiran-kanduri-692a73a9/>

## EXPERIENCE

---

### 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.
- Worked majorly on building Storm Water Analytics application for the Department of Transportation of California.
- Designed and implemented backend microservices in Python leveraging frameworks like flask, pandas and matplotlib for data manipulation, retrieval, statistical/scientific analysis and data visualization of storm water data. This helped in efficiently handling storm water and maintain water quality.
- 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.
- Incorporated Rest APIs to integrate with external systems for data exchange.
- Built the hearings module of 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 delivering and maintaining 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

---

### California State University, Sacramento

Aug. 2022 – Present

*Master of Science in Computer Science. current GPA: 3.58*

*Sacramento, CA*

### CVR College of Engineering

Aug. 2013 – Apr. 2017

*Bachelor of Technology in Information Technology. GPA: 3.24*

*Hyderabad, India*

## SKILLS

---

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

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

## PROJECTS

---

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

- \* A web application employing a distributed system architecture with data hosted on an AWS third-party server.
- \* Implemented backend services using Java Spring Boot framework and used asymmetric encryption with Diffie-Hellman Key Exchange for security.
- \* The site has interactive user interface developed using React and uses third-party authentication with google.

**Application for Brain Tumor Detection** | *Deep Learning, TensorFlow, Python, Flask, React, 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.

**Modified Proof of Stake** | *Blockchain, Consensus Protocols, Python, p2pnetwork, Flask, Multithreading.*

- \* Developed an innovative blockchain prototype implementing a novel Proof of Stake algorithm, utilizing Python and frameworks like p2pnetwork, multi-threading, and socket communication to ensure efficient and secure data 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.