

SRUTHI KANDHALA

SOFTWARE DEVELOPER | SOFTWARE ENGINEER | +1 (317) 675-0336 | kandhalasruthi@gmail.com | [LinkedIn](#) | [GitHub](#)

SKILLS

Front-End Technologies: HTML, CSS, JavaScript, Bootstrap, PHP, Angular, TypeScript

Back-End Technologies: Java/J2EE, Python, Jupyter

Databases: MySQL, SQL Server, NoSQL, MongoDB

Automation Tools: Selenium, Jenkins, Postman, TestNG

Configuration Management: SVN (version control), Git, JDBCC

Project Management Tools: Jira, Confluence, SharePoint, Office 365, UML

Other: SOAP, HTTP, XML, Web API, AWS - IAM, Lambda, EC2, S3, RDS;

WORK EXPERIENCE

Research Assistant | Purdue University in Indianapolis

February 2023 - Present*

IIOT based Energy Management Framework

- Designed and developed dynamic web pages with intuitive user interfaces, enabling seamless data manipulation and management of data for improved user experience.
- Created REST APIs using Python Flask framework to overcome the inefficiencies during data exchange, by streamlining the interaction between databases and applications, and optimizing overall system performance by 50%.
- Optimized SQL queries and stored procedures for data retrieval and manipulation, further strengthening security by validating the data before sending it to the database to ensure safe updates in the database without direct modifications.
- Applied data visualization techniques to plot sensor readings by utilizing D3.js to create informative charts for users.

Associate Software Engineer

June 2019 - December 2021

Opentext Technologies Pvt Ltd.

Hyderabad, India

- Enhanced an application framework, particularly beneficial for handling legacy data, by enabling efficient data validation and manipulation, increasing the efficiency by 40% in data perseverance.
- Developed a Selenium-based automation framework with scripts to test application fundamental functionalities, auto-generating detailed test reports for team review.
- Implemented a robust CI/CD pipeline with Jenkins, automating the build deployment during release activities to ensure efficiency, seamless integration, and reliable software delivery saving 20% time.
- Demonstrated adeptness in Test-Driven Agile Development (TDD) within a cross-functional team, seamlessly transitioning between roles as needed showcasing a diverse skill set.
- Led the analysis and design phases for the low-code platform-based application, crafting and refining business processes in alignment with user requirements to improve operational efficiency.
- Fabricated an automation solution for application users to be able to raise service requests by sending emails, ensuring all related email correspondence is linked to the corresponding service record for comprehensive and organized tracking.
- Developed a Single Page Application using Angular, for users to track their document submissions.

EDUCATION

Master's in Computer and Information Science

January 2022 - December 2023

Purdue University in Indianapolis

Related Coursework: Big Data Analytics, Cloud Computing, Object Oriented Design principles, Database Management and Security

Bachelor of Technology in Computer Science

August 2016 - September 2020

Jawaharlal Nehru Technological University

Related Coursework: Web Technologies, Design and Analysis of Algorithms, Data Structures, Software Engineering (SDLC)

PROJECTS

Court case management

User-friendly digital solution tailored for court proceedings, providing seamless updates on hearings, efficient document uploads, state management, secure email authentication, and timely notifications—streamlining the court-related workflow for user convenience.

COVID 19 Statistics Dashboard

Designed and fabricated a dashboard to display COVID-19 data extracted from WHO datasets, showcasing the number of cases, deaths, and vaccinated individuals worldwide. Utilized D3.js to create five charts, each illustrating different details and trends in the cases.

Twitter Hate Speech analysis

Conducted an analysis on Twitter data, delivering a solution to classify user reactions and sentiments towards specific topics.