

# SAKETH UPPULURI SAI

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## Professional Summary

Full-stack web developer and data engineer with five years of experience building data-driven web applications. Built an AI-powered math trainer using Gemini 1.5 LLM, Cloudflare Workers, and Vanilla JS. Addressed the highest priority ask by improving project organization and reducing content upload errors to less than 1%. Certified in AWS and Databricks data engineering.

## Education

### The University of Texas At Arlington

*Master Of Science in Computer Science*

Arlington, Texas

August 2023 - May 2025

### Jawaharlal Nehru Technological University

*Bachelor of Technology in Computer Science and Engineering*

Hyderabad, Telangana

August 2016 - May 2020

## Technical Skills

**Programming Languages:** C#, Python, Java, PHP, JavaScript (ES6+), Vanilla JS

**Web & Frameworks:** HTML5, CSS3, Bootstrap, React, Node.js, Laravel, Vue.js, WordPress, Drupal

**Data & Cloud:** Databricks, Apache Spark, Delta Lake, AWS (Glue, Redshift, Athena, S3, Lambda, DynamoDB), Azure

**Tools:** Git, GitHub, Visual Studio Code, Linux, Apache, Cloudflare Workers, Azure DevOps, AWS CLI, Terraform, Docker

**Database & AI:** MySQL, MongoDB, SQL Server, REST, JSON, Google Gemini API, Prompt Engineering

**Other Skills:** ETL Workflows, Data Pipelines, Data Lakehouse Design, Data Modeling, Data Security, SEO Optimization

## Experience

### Sailotech INC

*Web Developer Intern*

June 2025 - Present

Columbia, Maryland, US

- Created and maintained responsive web interfaces using HTML, CSS, JavaScript, and React, improving UI performance and accessibility across multiple devices.
- Collaborated in agile sprints to build reusable React components and integrate frontend modules with cloud-hosted APIs, ensuring seamless functionality and code scalability.
- Facilitated in debugging, testing, and deployment processes using Git and VS Code, contributing to reliable production releases and smooth project delivery.

### Prop Kingdom

*Web Developer*

January 2023 - July 2023

Hyderabad, India

- Maintained the company website using WordPress, resolving 100% of reported bugs within 24 hours, and conducting weekly security audits to patch vulnerabilities immediately.
- Designed responsive layouts using Elementor and custom CSS, enhancing mobile usability and overall user experience.
- Optimized website's technical SEO by configuring Yoast SEO plugin and implementing schema markup, achieving a significant increase in organic traffic within the first three months.

### Amazon

*D2AS Associate (IP)*

September 2022 - November 2022

Hyderabad, India

- Directed clients in product feature navigation, resulting in a faster adoption rate of Amazon services within two months, demonstrating excellent customer service abilities.
- Delivered step-by-step guidance to 30+ daily Amazon customers for product setup, which improved customer understanding and decreased follow-up support requests during the service.

### FOSSEE, IIT Bombay

*Project Research Assistant*

September 2020 - June 2022

Mumbai, India

- Engineered secure and scalable academic websites using PHP, Drupal, and Linux, optimized MySQL database schemas, and accelerated data access efficiency by 30%.
- Deployed customized Drupal modules for streamlined content uploading and project tracking, resulting in an increase in user engagement and demonstrably improving website performance.
- Fortified Drupal platform with over 25 custom modules, improving project organization, reducing content upload errors to less than 1%, and directly addressing the highest priority ask.
- Built a seamless upgrade to newer Drupal versions, boosting security features and improving plugin integrations, while resolving 100+ critical technical issues.

## Projects

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### **Math Trainer (AI) | Gemini 1.5 LLM, Cloudflare Workers, Vanilla JS**

- Built an AI-powered Math Trainer that generates topic/grade/sport-themed problems with a balanced mix of MCQs and open-ended questions, supports exact N question sets and endless single-question mode, auto-evaluates MCQs, and tracks progress via localStorage.
- Developed a clean, responsive Vanilla JS UI with accessibility features and UX details (keyboard shortcuts, copy-to-clipboard, status feedback), maintaining clear separation of concerns between frontend logic and serverless LLM calls.
- Engineered a secure Cloudflare Workers bridge for Gemini 1.5, implementing POST proxying, CORS handling, and preflight checks; secured secrets using robust environment variable management to strengthen application security.

### **Personal Finance Tracker | Web Development, Python, Selenium**

- Conceptualized an expense tracking platform featuring OCR-based receipt scanning, enabling 100+ users to upload and categorize 500+ receipts weekly, drastically reducing manual data entry errors.
- Pioneered interactive dashboards leveraging user analytics from the expense tracking platform, providing insights that informed three new product feature releases and boosted user engagement by 20%.

### **Traffic Violation Detection System | YOLOv5, Deep Learning**

- Created real-time image analysis system to detect helmet and speed violations using YOLOv3/v5.
- Trained model on 10,000+ labeled images; automated violation report generation for traffic authorities.

### **Volunteer application for MS graduates in Computer Science | Web Development. Laravel, Nodejs, React**

- Piloted an AI-driven contribution tracking system featuring real-time cooperative tools and fraud detection, leading to a 40% decrease in content plagiarism and boosted contributor satisfaction.
- Developed a real-time interactive leaderboard using JavaScript and React, displaying user progress and leveraging WebSockets for instantaneous data updates to enhance engagement and collaboration.

### **Apna Food Truck | Web Development, WordPress**

- Revamped client's website using WordPress CMS and implemented Yoast SEO plugin, enhanced organic visibility during the first month of launch.
- Leveraged Yoast SEO plugin and conducted keyword research, achieving first-page ranking for target keywords within three months, increasing organic traffic by 15%.

## Certifications

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- AWS Certified Data Engineer – Associate - Issued November 2025  
Validated expertise in designing and maintaining data pipelines on AWS, leveraging services such as AWS Glue, Redshift, S3, and EMR for scalable data integration, transformation, and analytics.
- Databricks Certified Data Engineer Associate - Issued October 2025  
Demonstrated expertise in building scalable data pipelines and ETL workflows using Databricks, with proficiency in Apache Spark, Delta Lake, SQL, and Python for high-performance data transformation and analytics.
- Cambridge English Assessment - Business English Certificate (BEC) B1
- CISCO – Internet of Things, Cybersecurity, C Programming
- Microsoft MTA – Database Fundamentals (September 2018)