

# Sasun Madhuranga

## SOFTWARE ENGINEER | FULL-STACK WEB DEVELOPER

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- Portfolio: <https://sasunmadhuranga.vercel.app>

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Aspiring Software Engineer | Full-Stack Web Developer with a BSc in Information Technology and hands-on experience in JavaScript, React.js, Node.js, MongoDB, PHP, MySQL, Python, and RESTful APIs. Currently focused on full-stack web development and scalable application design, cloud platforms (AWS), authentication systems, and API integration. Completed real-world projects including an Instagram clone, a legal assistance app with an AI chatbot, and management systems that improved efficiency by 30–60%. Eager to contribute both technical and creative skills to collaborative software engineering teams.

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### Technical Skills

- **Languages:** JavaScript, TypeScript, Python, PHP, Java, HTML, CSS, SQL
  - **Frameworks/Libraries:** React.js, Next.js, Node.js, Express.js, Axios, Tailwind CSS, Rasa
  - **Databases:** MongoDB, MySQL
  - **Tools/Platforms:** Git, GitHub, JWT, AWS, Google Analytics, Adobe Premiere Pro, Photoshop, After Effects
  - **Other:** RESTful APIs, API Integration, Authentication, Object-Oriented Programming (OOP), UI/UX, SEO, Version control, MVC architecture, Android Development, Quality Assurance, Artificial Intelligence (AI), Generative AI (Gen AI)
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### Professional Experience

#### Content Creator

2019 - Present

- Produced educational and engaging video content for a YouTube channel with over 63,000 subscribers.
  - Created and implemented data-driven content strategies using YouTube Analytics, TubeBuddy, and Google Trends, resulting in higher viewer retention and discovery.
  - Optimized SEO to increase reach and engagement, leading to a consistent 20% monthly growth rate.
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### Projects & Technical Experience

## **Instagram Clone | Full-Stack Developer**

**2025**

### **MongoDB, Express.js, React.js, Node.js, Tailwind CSS, JWT**

- Engineered a fully responsive Instagram clone, with features for media upload, post creation, and 99.9% system uptime.
- Implemented JWT-based authentication and protected RESTful API routes to ensure secure user sessions and data integrity.
- Replicated over 6 core features such as user posts, likes, comments, and profiles, and related sub-features.

## **Legal Assistance App with AI chatbot**

**2024 – 2025**

### **React.js, Python, PHP, HTML/CSS, Rasa, JavaScript, Axios**

- Created a legal support platform for consultation, document creation, and case handling.
- Integrated an AI-powered chatbot using the Rasa framework, enabling 24/7 automated legal support.
- Achieved a 65%+ resolution rate for user queries and reduced human support workload by 40% and average query response time.

## **Inventory Management System**

**2024**

### **HTML, CSS, JavaScript, PHP, MySQL**

- Engineered a tool to track inventory levels, purchase orders, and reports, enhancing operational efficiency for end users.
- Enhanced stock tracking accuracy by 30% through real-time updates and reporting.

## **University Hostel Management System**

**2022**

### **HTML, CSS, JavaScript, PHP, MySQL**

- Developed a hostel management web application with dashboards, authentication, and payment modules, automating booking workflows and reducing manual administrative tasks by 60%.

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## **Education**

### **BSc in Information Technology**

**2021 - 2025**

University of Moratuwa, Colombo, Sri Lanka

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## **Certifications**

Advanced React – Meta (Coursera)

**2025**

Credential ID: C7GDNJEPZ7A8

AWS Cloud Technical Essentials – AWS (Coursera)

**2025**

Credential ID: 6KCB3WOKJLUZ