

# SHAHIR A

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## SUMMARY

Aspiring Software Engineering student specializing in full-stack web development and machine learning. Proficient in the MERN stack (MongoDB, Express.js, React.js, Node.js) and Python, with hands-on experience building scalable RESTful APIs, implementing JWT authentication, and deploying responsive web applications. Demonstrated success through 5+ freelance projects and a research internship, delivering client-focused solutions. Seeking a Software Engineer position to leverage technical expertise in building impactful, user-centric applications.

## TECHNICAL SKILLS

**Skills:** Languages: Python, JavaScript | Frontend: React.js, HTML, CSS | Backend: Node.js, Express.js |  
Database and ORM: MongoDB, Mongoose | Tools: Git, GitHub, Docker(basic) | Other: UE5,

## EXPERIENCE

### Freelance Web Developer

Self-Employed -2026 – Present

Designed and developed 5+ responsive static websites for clients and ensuring mobile-first design and cross-browser compatibility Collaborated directly with clients to gather requirements and deliver projects within deadlines, maintaining a 100% client satisfaction rate Optimized website performance by implementing lazy loading, image compression, and clean semantic code structure for faster load times

### Research Intern | Rathinam Research Hub

March 2026 – April 2026

Developed a fully responsive e-commerce website using React.js, HTML5, and CSS3, featuring product listings, shopping cart functionality, and intuitive user navigation Built reusable React components to ensure code maintainability, reduce redundancy, and deliver a seamless cross-device user experience

## PROJECTS

### Twitter Clone – Full-Stack Social Platform | MERN Stack

Engineered a responsive full-stack platform using MongoDB, Express.js, React, and Node.js with JWT-based authentication. Architected RESTful APIs supporting core CRUD operations for user profiles, posts, comments, and real-time interaction metrics. Boosted application performance by implementing TanStack Query for Reduced API calls by **35%** and reduced server overhead.

### Real-Time Emotion Detection System | Python ( TensorFlow, Keras and OpenCV )

Developed a Convolutional Neural Network (CNN) using TensorFlow and Keras to classify human facial expressions from live video feeds. Built a real-time computer vision pipeline using OpenCV to process video frames at 30 FPS for low-latency facial detection. Engineered data preprocessing workflows using NumPy, applying data augmentation and hyperparameter tuning to boost accuracy.

## EDUCATION

**B.Sc Artificial Intelligence and Machine Learning | Rathinam College of Arts and Science CGPA: 7.2 | 2024 – Present**  
**C.S.I Boys Hr. Secondary School - HSC - 2024 | SSLC – 2022**

## CERTIFICATION

IBM Certified Python Developer  
IBM Certified AI Developer  
MongoDB Certified Developer

## ADDITIONAL INFORMATION

**English & Tamil – Read, Write, Speak | Malayalam – Speak**  
**Soft Skills:** Multitasking , Teamwork, Problem Solving, Time Management