Mohan Raja

Aspiring Software Engineer Intern|Full-StackDeveloper | AI   Innovator

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TECHNICAL SKILLS

Technologies

C,Java,Python, HTML , Css,
Bootstarp , JavaScript , MongoDB , SQL ,
React.js , Node.js , Express.js , RAG , Open cv ,
Yolo v8, Mediapipe , Pillow(PIL), Tesseract
OCR , Flask,Streamlit, Scikit-learn , Pytorch,
Deepface , Langchain, BeautifulSoup,
Numpy,Pandas, Hugging Face

Tools & Platforms:

Git,GitHub,VSCode,Vercel, Netlify

RELEVANT COURSEWORK

DataStructuresandAlgorithms, Operating
Systems, Software Engineering, Object-
Oriented Programming, Computer
Networks, Database Systems.

EDUCATION

2023-2027
B. TECH - INFORMATION TECHNOLOGY
Kongu Engineering College, Erode
CGPA - 8/10

2022-2023
HIGHER SECONDARY EDUCATION
Kongu Kalvi Nilayam
Percentage - 90

CERTIFICATIONS

AWS - Certified Cloud practitioner
Certificate Link

Oracle - APEX cloud developer
Certificate link

Freecodecamp-Responsive webdesign
Certificate Link

Freecodecamp - JAVAScript
Certificate Link

Accenture - Software Engineering
Certificate Link

AWS - Solutions Architecture
Certificate Link

SOFT SKILLS

- Problem-Solving
- Adaptability & Learning Agility
- Teamwork & Collaboration
- Time Management & Multitasking
- Leadership & Responsibility

SUMMARY

Software Engineering Intern with hands-on experience in web development, AI integration, and scalable software systems. Proficient in Java, Python, and JavaScript with strong understanding of computer science fundamentals including data structures, algorithms, and object-oriented design. Proven ability to collaborate in cross-functional teams, adapt quickly to new technologies, and deliver reliable, high- performance solutions aligned with agile development practices.

PROFESSIONAL EXPERIENCE

Freelance Webdeveloper | Kongu Engineering College
April 2025 - Present

- Developing and maintaining web applications tailored for institutional use.
- Collaborating with various college departments to design and deliver custom digital solutions.
- Ensuring functionality, security, and usability across all institutional platforms.

PROJECTS

AI-Powered Security System – Facial Intruder Alert System
Sep 2024 – Dec 2024
Role: Machine Learning Engineer

- Designed a real-time facial recognition system for detecting unauthorized access to personal devices.
- Integrated a multi-channel alert system (pop-ups, phone calls, emails) along with automatic device locking.
- Applied computer vision algorithms for face tracking and suspicious behavior detection.
- Impact: Strengthened device security in shared and public environments.

Wi-Fi & Password Management Portal – Kongu Engineering College
Jan 2025 – Apr 2025
Role: Full Stack Developer

- Built a secure web portal for managing Wi-Fi access and password services across the KEC campus network.
- Developed a responsive interface for streamlined login, registration, and automated password reset functionalities.
- Implemented real-time authentication and device logging mechanisms to ensure secure and traceable network usage.

AI-powered Study Buddy
Apr 2025 - May 2025
Role: Frontend Engineer & AI Integration Specialist

- Applied engineering principles to solve complex problems with retrieval-augmented generation models.
- Designed user-centric interfaces and integrated document parsing and LLM-based responses.
- Collaborated in a team environment to deliver an efficient, scalable AI solution aligned with real-world academic use cases.

AI-powered Vulnerability Scanner
May 2025 – Jun 2025
Role: Software Developer

- Developed an intelligent security analysis system that combines pattern-based methods with machine learning to detect complex, context-aware code vulnerabilities. Implemented static code analysis techniques including regex pattern matching, AST parsing, and control flow inspection for comprehensive vulnerability detection. Delivered features such as automated remediation suggestions and detailed risk reports, enabling security integration throughout the SDLC (Software Development Life Cycle).