

ALAN MATHEW VARGHESE

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[Website](#) ♦ [LinkedIn](#) ♦ [GitHub](#)

OBJECTIVE

Motivated Computer Science student with experience in web development, AI integration, and machine learning. Eager to apply skills in JavaScript, Python, and API integration to contribute to innovative projects in web development and computer vision.

INTERNSHIPS

- **Infosys – Internship 5.0 (B3): Advanced AI-Driven Legal Document Summarization and Risk Assessment**

[November 26, 2024 – January 31, 2025]

Gained hands-on experience in AI-driven legal document processing, summarization, and risk assessment automation at Infosys. Explored advanced NLP techniques and machine learning to enhance document analysis efficiency and accuracy, deepening my understanding of AI in the legal domain.

- **EY GDS & AICTE – Internship on Building Modern Web Applications with MERN Stack**

[December 9, 2024 – January 20, 2025]

Developed a real-time code collaboration web application using the MERN stack (MongoDB, Express.js, React, Node.js) and Socket.IO for seamless communication. This project enhanced my full-stack development skills and deepened my understanding of real-time web applications.

- **AICTE & VOIS for Tech Program Virtual Internship – Data Analytics using AI-LLMs**

[October 10, 2024 – November 8, 2024]

Completed an internship in data analytics and AI, working with LLMs and datasets like Superstore and Doctor Visits. Focused on data cleaning, visualization, and applying machine learning models to generate insights and predictive analysis.

PROJECTS

- **AI-Legal Document Querying and Risk Analysis** ([GitHub link](#))

This project provides a legal and risk analysis tool using **Watson AI**. It allows users to upload documents (txt, pdf, csv) and receive risk and legal analyses based on the content using Watson's natural language processing capabilities. The app provides detailed risk identification, recommendations, and insights from uploaded files.

- **Volunteer Assistance Network** ([GitHub link](#))

The Volunteer Assistance Network is a platform designed using **MERN** stack to connect senior citizens and caregivers with volunteers willing to offer assistance in various areas, such as companionship, housekeeping, gardening, and more.

- **Balloon Pop Mania** ([GitHub link](#))

Developed a hand-tracking balloon-popping game using **Pygame** and **OpenCV**, leveraging computer vision to enable players to pop balloons with hand movements. The project demonstrated the innovative application of computer vision and engaged users through interactive gameplay.

- **Car Detection Model** ([GitHub link](#))

Developed a Car Detection and Counting System using **OpenCV** to automate traffic monitoring by detecting and counting cars crossing a line in a video feed. The project demonstrated the practical applications of computer vision in surveillance and traffic management.

TECHNICAL SKILLS

- **Languages:** Python, C, Java, JavaScript, SQL(Postgres, mysql), MongoDB, HTML/CSS
- **Frameworks:** React, Node.js, Express, Tailwind CSS
- **Developer Tools:** Git, Google Cloud Platform, VS Code, Pycharm
- **Libraries:** Pygame, Framer Motion
- **Designing Tools:** Photoshop, Canva, Blender, After Effects

EDUCATION

TKM College of Engineering Kollam, Kerala, India B.Tech in Computer Science and Engineering. CGPA: 8.4 Undergraduate Coursework: DSA, Operating System, Discrete Mathematics, Database.	2022 - 2026
Christ Central School Thiruvalla, Kerala, India CBSE 12 th grade in Computer Science (94%). Coursework: Fundamentals of programming, Python.	2020 - 2022
Mathews Mar Athanasius Residential School Chengannur, Kerala, India ICSE 10 th grade (97%).	2008 - 2020

CERTIFICATIONS

<ul style="list-style-type: none">• Artificial Intelligence Primer Certification by Infosys Springboard.• Principles of Generative AI Certification by Infosys Springboard.• Career Essentials in Software Development by Microsoft and LinkedIn.• Career Essentials in Generative AI by Microsoft and LinkedIn.	
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LEADERSHIPS

<ul style="list-style-type: none">• Tech Lead in Executive Committee of ACM, TKM College of Engineering (2024).• Web Team in Executive Committee of C-Rob, TKM College of Engineering (2024).• Student Placement Coordinator of CSE dept, TKM College of Engineering (2024)• Design Head in Executive Committee of CSI, TKM College of Engineering (2023-2024)• Design Team in Executive Committee of Coding Club, TKM College of Engineering (2023-2024)• Design Team in Executive Committee of ACM, TKM College of Engineering (2023-2024)	
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