

Aleena Mariya Rajan

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GitHub: github.com/Aleenarajan | Portfolio: aleenamariya-portfolio.netlify.app

Software Engineer — AI/ML Developer — Full Stack Developer

Professional Summary

Master of Computer Applications graduate with expertise in React.js, Node.js, Python, AI/ML, Deep Learning, TensorFlow, and web development. Proven experience in software engineering, data science, and building AI-powered applications. Strong problem-solving skills with experience in computer vision projects and full-stack development.

Technical Skills

Programming Languages: Python, JavaScript, SQL, HTML, CSS

Frameworks & Libraries: React.js, Node.js, Flask, TensorFlow, Keras

AI/ML: Machine Learning, Deep Learning, CNN, GAN, Computer Vision

Databases: MySQL, MongoDB

Tools: Git, GitHub, REST APIs, Responsive Design

Professional Experience

Software Engineer Intern

June 2025 – Present

YESIGN, Thrissur

- Developed software applications using modern web technologies
- Collaborated on feature implementation and code reviews
- Participated in agile development lifecycle

Data Science Intern

Feb 2025 – Mar 2025

Cognifys Technology

- Implemented machine learning models for data analysis
- Processed datasets using Python and data science libraries
- Developed data visualization dashboards and reports

Projects

Face Mask Detection System

Aug 2024 – Oct 2024

Python, TensorFlow, Flask, CNN

- Developed real-time detection system using Convolutional Neural Networks
- Achieved 95% accuracy in identifying masked/unmasked faces
- Implemented web interface using Flask framework

AI Image Colorization System

Jan 2025 – Mar 2025

Python, TensorFlow, GAN, CNN

- Built AI model for automatic image colorization using GAN architecture
- Converted black-white images to colored versions with 90% accuracy
- Deployed as web application using Flask

Oriens Ecommerce Platform

Jul 2025 – Aug 2025

React.js, JavaScript, Node.js

- Developed full-stack ecommerce platform with React.js frontend
- Implemented product catalog, search, filtering, and shopping cart
- Integrated user authentication and WhatsApp API

Personal Portfolio Website

Mar 2025

React.js, JavaScript, Tailwind CSS

- Built responsive single-page application using React.js
- Implemented React Router and modern UI with Tailwind CSS
- Integrated contact form with email functionality

Publications

AI-Powered Pneumonia Detection from Chest X-Rays – Web-Based CNN Application

International Journal of Advanced Computer Science and Applications

Authors: Aleena Mariya Rajan, Binoj B Chandran, Nissam S, Manasi S

- Developed medical diagnostic app using CNNs for pneumonia detection
- Achieved 94% diagnostic accuracy from chest X-ray images
- Integrated deep learning model with Flask for real-time analysis

Education

Master of Computer Applications (MCA)

Aug 2023 – May 2025

Mar Baselios Institute of Technology and Science, Kothannangalam

CGPA: 6.95/10.0

Bachelor of Science in Computer Science

Jul 2020 – May 2023

Sahyajyothi Arts and Science College, Kumily

CGPA: 6.3/10.0

Higher Secondary Education (12th)

Jun 2018 – May 2020

Giss Amaravathy, Kumily

Percentage: 62.83%

Secondary Education (10th)

2018

Mary Matha Public School (CBSE), Kumily

Percentage: 51%

Certifications

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- Privacy And Security in Social Media — NPTEL

Technical Proficiencies

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- **Software Development:** Agile, SDLC, Code Review, Testing
 - **Web Development:** Frontend, Backend, REST APIs
 - **Data Science:** Data Analysis, Machine Learning, Data Visualization

Languages

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- English (Professional Proficiency)
 - Malayalam (Native Proficiency)
 - Tamil (Professional Proficiency)