

Krishna Padmanabhan

Full Stack developer

A Computer Science Engineering graduate with a passion for Full Stack development with ReactJS and NodeJS as well as secondary interests in Machine Learning and CyberSecurity, especially Blue Teaming.



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EDUCATION

Bachelor of Engineering in Computer Science and Engineering

Anna University, Chennai

08/2019 - 05/2023

9.12/10

High School Diploma

Lalaji Memorial Omega International School

07/2005 - 05/2018

89%

PROGRAMMING PROJECTS

Blockchain Secured Driver Health Data Monitoring System

- Developed a web application with NodeJS that enters a driver's health data measurements into a Hyperledger Fabric Blockchain network that allows a group of trusted individuals to view the measurements and notifies them if abnormal readings are detected.

Occlusion Aware Framework For Movement Localization

- Developed a PatchGAN to remove occlusions in monocular pedestrian images by inpainting.

Stop and Wait Simulator

- Developed a Full-Stack application using React, ExpressJS and Socket.io to simulate the working of the stop and wait method of packet transfer.

Caching Simulator

- Developed an application with NodeJS and Redis that simulates the working of a caching service.

A Vision-Based Approach for the Diagnosis of Digital Asthenopia

- Developed a YOLOv5 Deep Learning model for the detection of redness and dryness of eyes along with an interface to identify the blinking rate of an individual from the webcam of a device together used to detect the presence of Digital Eye Strain.
- <https://ieeexplore.ieee.org/abstract/document/10125593>

DNS Simulator

- Created a web application to simulate the use of a Domain Name System matching domain names to IP addresses by the use of NodeJS and Redis database.

AI Recognition of Articles of Clothing

- Developed a program to recognize articles of clothing (Fashion-MNIST) using a neural network with TensorFlow and Python.
- https://github.com/Krishna2752/Fashion_MNIST

Containerized Movie Review Blog

- Developed a web application with a React frontend and a Node backend where the front end accesses movie review data from a backend API both of which are present in Docker containers.

SKILLS

React

JavaScript

Docker

Terraform

Node.js

Cyber Security

Next.js

Firebase

SQL

Python

Redis

MongoDB

DevSecOps

ACHIEVEMENTS

Received a scholarship of more than ₹10000 for academic achievements.

Six Sigma Black Belt (08/2023 - Present)

Six Sigma Academy Amsterdam

COURSES

Complete React Developer in 2021 (w/ Redux, Hooks, GraphQL) - Udemy & zerotomastery.io

The Complete Web Developer in 2021: Zero to Mastery - Udemy & zerotomastery.io

Convolutional Neural Networks - Coursera & Deeplearning.ai

Neural Networks and Deep Learning - Coursera & Deeplearning.ai

SOC Level 1 Learning Path from TryHackMe

Involved many hands-on exercises with IDS/IPS tools (Wireshark, Brim), SIEM tools (ELK, Splunk) and DFIR tools (Autopsy, Velociraptor).

Complete Ethical Hacking Bootcamp 2023: Zero to Mastery - Udemy & zerotomastery.io

LANGUAGES

English

Native or Bilingual Proficiency

Hindi

Full Professional Proficiency

Tamil

Professional Working Proficiency

Persian

Limited Working Proficiency

INTERESTS

Mixed Martial Arts

Finance

Linguistics