

ROOPAK ROY

Kottayam, Kerala

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Career Objective

Aspiring software engineer with a strong foundation in computer science and hands-on experience in software development. Graduated with a Bachelor of Technology in Computer Science from Saintgits College of Engineering. Demonstrates excellent problem-solving skills and a passion for continuous learning and innovation .

Education

Saintgits College of Engineering

2021-2025

Bachelor of Technology in Computer Science (CGPA: 6.54)

Kottayam, Kerala, India

Govt Boys Higher Secondary School Adoor

2019-2021

Higher Secondary Education (Percentage: 99.5%)

Adoor, Kerala, India

St Thomas HSS Kadampanad

2018

High School (Percentage: 95%)

Kadampanad, Kerala, India

Technical Skills

Languages: Python, C, HTML, CSS, SQL

Operating Systems: Windows, Linux

Database: MySQL

Frameworks and tools: Git, Postman, Microsoft Office

Projects

Certio | Academic | HTML, JavaScript, Solidity, IPFS, Ethereum Blockchain

2024

- Developed a system for exporting and verifying academic certificates using blockchain technology to prevent certificate forgery.
- Utilized Solidity to create and deploy smart contracts on the Ethereum network to securely store certificate hashes.
- Integrated IPFS (InterPlanetary File System) to store certificates and provide decentralized file storage.
- Implemented a verification mechanism that allows users to validate certificates via QR code, ensuring a tamper-proof process.
- Designed the front-end using HTML, CSS, and JavaScript for a user-friendly interface for certificate upload and verification.

Image Steganography using GAN (I-SteG) | Academic | Python, TensorFlow, GANs

2024

- Implemented an image steganography system using Generative Adversarial Networks (GANs) to securely embed secret messages within digital images.
- Developed a generator-discriminator architecture to optimize the quality and indistinguishability of steganographic images.
- Achieved high fidelity in image reconstruction, ensuring that embedded messages remain undetectable while maintaining visual quality.

Achievements

- NPTEL-successfully completed problem solving through programming in C.
- Completed Workshop in Intro to Cloud Computing at Shaastra,IIT Madras.
- Completed a 5 day Summer Internship on Digital Skills conducted by ICT Academy,Kerala.
- Completed Workshop in Full Stack Web Development as a Part of Ragam,NIT Calicut.
- Successfully completed "The Bits and Bytes of Computer Networking" by Google on Coursera.
- Successfully completed "Agile Scrum Certification" on Infosys Springboard.
- Successfully completed the "Decision Trees using Python" course on Infosys Springboard.
- Completed "Agile Leadership: Introduction to Change" by the University of Colorado System on Coursera.
- Made into the top 15 of "Make-A-Ton Hackathon", showcasing innovative problem-solving skills and technical proficiency.

Reasearch and Publication

Secure Image Steganography Using Deep Learning | IEEE

2025

- The article proposes that a solution approach involves developing an image steganography system using Generative Adversarial Networks (GANs), complemented by a user-friendly website.
- <https://ieeexplore.ieee.org/document/11040343>

Hobbies

- Table Tennis
- Travelling
- Swimming