



Mahipal Mahipal

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ABOUT ME

I am an ambitious and versatile individual with a vital Computer Science and Cybersecurity academic background. As a Java Programming Intern, I gained experience in developing efficient algorithms and implementing Multicast Wireless Routing Protocols. I have also contributed to a research project on enhancing haze removal in images. Proficient in web development, cyber and IT security, and with a passion for programming, I possess strong problem-solving skills and thrive in collaborative team environments. Additionally, I have certifications in Big Data, Google Cloud Infrastructure, and Digital Marketing. Outside of work, I enjoy trekking, gaming, traveling, and expanding my language skills in English and German.

WORK EXPERIENCE

Java Programming Intern

Ren Info [01/06/2019 – 30/06/2019]

City: Chennai

Country: India

EDUCATION AND TRAINING

M.Sc. Computer Science Focus On Cybersecurity

SRH Berlin University Of Applied Science [01/04/2022 – Current]

Address: Ernst-Reuter-Platz 10, 10587 Berlin (Germany)

Graphic Designing

Arena Animations [22/05/2019 – 21/05/2021]

Address: Ground Floor & 3rd Floor, Raahat Plaza Vadapalani, 600026 Chennai (India)

B.Tech Computer Science and Engineering

SRM Institute of Science and Technology [01/06/2017 – 05/06/2021]

Address: Bharathi Salai Ramapuram, 600089 Chennai (India)

DIGITAL SKILLS

Web: HTML, CSS / C / Microsoft Office / Team-work oriented / Cyber Security / IT Security / Kali Linux / Ethical Hacking / Penetration Testing / Cybersecurity / Cybersecurity architecture

PROJECTS

An Enhanced Haze Removal: Using DCP and Enriched-Invariant Features

[10/01/2021 – Current]

This project is published in a Conference of [International Conference on Micro-Electronics and Telecommunication Engineering 2021](#) under [Micro-Electronics and Telecommunication Engineering](#) page No 257-267

1. Developed an algorithm for removing haze from images using a combination of Dark Channel Prior (DCP) and Enriched-Invariant Features.
2. Implemented the algorithm in MATLAB to remove haze from a variety of images.
3. Enhanced the performance of the algorithm by incorporating a modified DCP method and utilizing color and contrast information.
4. Evaluated the performance of the algorithm by comparing the results with other state-of-the-art methods and demonstrated significant improvement in haze removal.
5. Contributed to the development of a research paper presenting the algorithm and its results, which was published in a peer-reviewed journal.

Link: https://link.springer.com/chapter/10.1007/978-981-16-8721-1_25

Multicast Wireless Routing Protocol In Java Programming

[01/06/2019 – 30/06/2019]

1. **Proficient in Java programming and experienced in developing Multicast Wireless Routing Protocol.**
2. **Skilled in designing and implementing efficient algorithms for wireless networks.**
3. **In-depth knowledge of multicast communication, IP addressing, and routing protocols.**
4. **Familiar with network simulation tools like NS2, NS3, and OPNET.**
5. **Strong problem-solving skills and ability to work collaboratively in a team environment.**

Vampire-Attacks-Draining-Life-from-Wireless-Ad-Hoc-Sensor-Networks

[06/2019 – Current]

1. **Vampire Attacks: Draining Life from Wireless Ad Hoc Sensor Network is a Java-based application**
2. **Simulates and analyzes vampire attacks on wireless sensor networks**
3. **Explores vulnerabilities of such networks**
4. **Mimics behavior of energy-draining malicious nodes**

Link: <https://github.com/mukul975/Vampire-Attacks-Draining-Life-from-Wireless-Ad-Hoc-Sensor-Networks>

CERTIFICATES

Introduction to Big Data

[06/2020]

Link: <https://coursera.org/verify/8USCQHWR4D58>

Exploring and Preparing your Data with BigQuery

[06/2020]

Link: <https://coursera.org/verify/DBHXQ7YGU2FH>

Google Cloud Fundamentals: Core Infrastructure

[06/2020]

Link: <https://coursera.org/verify/K62FVPPDWA3L>

Fundamental of Digital Marketing

Certificate ID:- QPX 6UH R5M

Link: <https://learn.digital.withgoogle.com/link/1qsdpcedm9s>

Full Stack Development

[03/2021 – 06/2021]

Link: <https://www.guvi.in/certificate?id=2h136882z331l6T9Gs>

Learn Ethical Hacking From Scratch

[07/06/2023]

Link: <https://www.udemy.com/certificate/UC-104a8e3b-1b9c-4dab-bedf-ba7ed29bbbd/>

Fundamentals of Cybersecurity Architecture

[22/06/2023]

Link: <https://app.cybrary.it/courses/api/certificate/CC-9fc42217-c35c-4f3d-a0d3-c4dfec40df35/view>

Introduction to Cybersecurity

[28/06/2023]

Link: https://www.credly.com/badges/92f61cc8-e79b-41ad-aa5b-0b77c43b362f/public_url

HOBBIES AND INTERESTS

Trekking

Gaming

Traveling

Programming

Technology

LANGUAGE SKILLS

Mother tongue(s): **Hindi**

Other language(s):

English

LISTENING C1 READING C1 WRITING B1

SPOKEN PRODUCTION B2 SPOKEN INTERACTION C1

German

LISTENING A1 READING A1 WRITING A1

SPOKEN PRODUCTION A1 SPOKEN INTERACTION A1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user