

Harshad Nandkumar Dhane

Full Stack Developer | UI/UX

harsh4152218@gmail.com, +91 9359189767, Pune, Maharashtra, India

LinkedIn: [harshad-dhane-4bb008195/](https://www.linkedin.com/in/harshad-dhane-4bb008195/), GitHub: github.com/harshad141, Hackerrank: [AP19110010341](https://www.hackerrank.com/Profile/AP19110010341)

PROJECTS

AgroAID

Feb 2022 – Apr 2022

- A user friendly interface built on flutter stack, and was developed as a part of Inter Disciplinary Project at SRM University AP using FLUTTER Stack.
- Application supported features like soil testing, hiring machinery, booking vendors, crop advisory etc, which linked growers to traders and visa versa. Also featured multiple language support.
- Specific data to be securely stored over the cloud for uninterrupted access over the application.

Deceptive Image –inator

Sep 2021 – Nov 2021

- Data hiding in colored-cover images using histogram shifting based reversible data hiding in natural images.
- Implemented with Python, image processing using MATLAB 2021 and advance steganography.
- Hiding data with an efficiency rate of 2 bits per image block, ensuring 100% lossless recovery of the images.

Blockchain for defence

Feb 2022 – Apr 2022

- This Project was developed as a part of Undergraduate Research Opportunity Program by SRM University AP
- An Ethereum based decentralized app (DApp) developed using Solidity and JavaScript, which will also eliminate human interference by digitally managing the records, eliminating various constraints such as errors and data alteration. It took 2336.182 ms to create a new record and used a GAS fees of 0.000665817 ETH.
- Featuring Interplanetary File upload System for decentralized file upload in a distributed system.

Natural events tracker

Jul 2021 – Aug 2021

- A full stack application that tracked natural events like storms, wildfires, volcanic activities, etc
- Developed using the NASA Earth Observatory Natural Tracker (EONET) API.
- Designed using ReactJS as the part of semester project for the subject of software engineering
- Link for the project: <https://github.com/Harshad141/Natural-events-tracker>

Electron Screen recorder

Sep 2021 – Oct 2021

- A simple screen recorder for desktop built using Electron JS.
- Ability to capture multiple windows or the entire screen.
- Technologies used were ReactJS, NodeJS, SCSS, Electron JS

SKILLS

Technical Skills

- **Programming Languages:** C, C++, Python, JAVA, MATLAB.
- **Web Technology:** MERN Stack (React JS, Node JS, MongoDB), HTML, CSS, JavaScript.
- **Database:** MongoDB, MySQL
- **Other Software Tools:** Git, GitHub, Chrome DevTools, Microsoft Office Suite, Photoshop, Web Flow
- **Others:** Vulnerability analysis and Penetration testing, Image Processing, Figma, Adobe Illustrator, Canva.
- **Platforms:** Linux, MacOS, Windows.

Management Skills

Problem solving, Public Speaking, Strategic thinking

CERTIFICATIONS & TRAININGS

- Hackerrank Python (Basic), Issued Aug 2021
- Hackerrank Java, Issued Aug 2021
- Hackerrank Problem Solving (Basic), Issued Aug 2020
- Ethical Hacking by Internshala, Issued Jul 2020
- Cyber threats and attack vectors, Issued Apr 2020

- Cyber security Roles, Processes & Operating system security, Issued Apr 2020

RESEARCH EXPERIENCE

NIT Meghalaya – Shillong, India

Conference Attendee

Apr 2022 – Apr 2022

- Presented a research work in The 4th International Conference on Energy, Power and Environment 2022 (ICEPE-2022), conducted by NIT Meghalaya.
- **Paper Title:** A novel high capacity reversible data hiding through encryption by permuting RC4 encryption key & entropy analysis.
- Paper published in IEEE Explore. <https://ieeexplore.ieee.org/abstract/document/9798065>.

INNS Morocco – Fez, Morocco

Conference Attendee

Oct 2021 – Oct 2021

- The 5th International Conference on Intelligent Computing in Data Sciences 2021 (ICDS-2021), Fez Morocco., conducted by INNS Morocco.
- **Paper Title** A new Framework for secure biometric data transmission using block-wise reversible data hiding through encryption.
- Paper published in IEEE Explore. <https://ieeexplore.ieee.org/abstract/document/9626742>

SRM University. – Andhra Pradesh, India

Research Intern

Jun 2021 – Jul 2021

- Worked as a **Research intern** under a faculty a SRM University AP on the topic “A new Framework for secure biometric data transmission using block-wise reversible data hiding through encryption”.
- Implemented using MATLAB 2021, and ensured high embedding rate in grey scale images, also featured multilevel image encryption.
- Later published the work in IEEE Explore <https://ieeexplore.ieee.org/abstract/document/9626742>

Next Tech Lab AP: -- Andhra Pradesh, India

Member

Dec 2019- Present

- Next Tech Lab is a proven successful experimented student-led innovation lab at SRM University AP.
- Worked on various IoT components, Vulnerability analysis and Penetration testing, Full Stack Developer and graphic designer and led several projects throughout.
- Contributed to the laboratory, mentored various associates achieving their goals.

EDUCATION

SRM University AP, Andhra Pradesh

Jul 2019 - Present

Bachelor of Technology, Computer Science and Engineering; CGPA: 8.54/10

Dr. D Y Patil Jr College

Jul 2017- Mar 2018

12th HSC, 77.23/100

Kendriya Vidhalaya

Jul 2015 – Mar 2016

10th CBSE, CGPA: 10/10

ACHIEVEMENTS

- **Gold medallist** in the track of Cyber Security at Research Day 2022 organized at SRM University AP
 - Secured **First position** in a national level hackathon organized by DRC University of science and technology (HACK DCRUST- 2020), Sonapat, Haryana.
 - Secured **Top 10** positions among 600+ participants in a national level hackathon organized by Amity University Noida.(AMIHACKS- 2020)
 - Secured **Gold medal** at the school level science exhibition organized by Dr DY Patil Jr College, Pune
-