

Deep Ratanpara

Research

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SUMMARY

Engineered airborne radar processing and display systems within the Avionics Business Unit. Developed full-stack software using Java, AngularJS, and Python for data extraction and internal web modules. Experienced in cryptographic systems design, cybersecurity tools, and building responsive web interfaces.

EXPERIENCE

Engineer

Tata Elxsi

Jun 2026 – Present

- Engineered requirements and architecture for airborne weather radar systems within the Avionics Business Unit.
- Developed radar data processing algorithms, visualization features, and cockpit display functions.

Associate Software Engineer Intern

TSS Consultancy Services

Jun 2025 – Present

- Completed hands-on training in Java and AngularJS to build full-stack enterprise applications.
- Contributed to backend API logic and frontend module development for internal products.

Associate Software Engineer - Intern

TSS Consultancy Pvt Ltd

Jun 2025 – May 2026

- Assisted in full-stack software development and internal module engineering.

Associate Software Engineer Intern

TSS Consultancy Services

Jan 2025 – May 2025

- Completed hands-on training in Java and AngularJS to build full-stack enterprise applications.
- Contributed to backend API logic and frontend module development for internal products.

Associate Software Engineer - Intern

TSS Consultancy Pvt Ltd

Jan 2025 – May 2025

- Assisted in full-stack software development and internal module engineering.

Frontend Developer

Creative Tech Agency

Jan 2020 – Jan 2022

- Developed responsive web interfaces using modern JavaScript frameworks.
- Optimized web assets to maximize rendering speed and search engine ranking.

Senior Web Developer

Dreamy Web Solutions

- Led front-end and full-stack web development projects across cross-functional teams.
- Mentored junior developers and collaborated with designers to deliver accessible web applications.

EDUCATION

Marwadi University(NAAC A+) · Bachelors of Science · 2022 – 2022

Dholakiya School · 12th, 10th

University of Technology · Bachelor of Science · 2016 – 2020

SKILLS

Languages and Frameworks: AngularJS, CSS3, Flask, HTML5, Java, JavaScript, Python, React, Spring Boot, TypeScript

Databases: MySQL, PostgreSQL

Tools: BeautifulSoup, Brupsuite, Git, GitHub, Kali Linux, Nmap, Pandas, PyPDF2, RESTful APIs, Ubuntu, Zap

PROJECTS

DotDash Data Protection System

Designed and implemented a data protection system using a random binary tree–based cryptographic mechanism combined with Morse-code-like obfuscation. Built secure key generation. Designed a random binary tree cryptographic mechanism combined with Morse-code obfuscation. Implemented secure key generation and data obfuscation workflows.

PERSONAL SECURITY AND INSPECTION DEVICE

Designed and developed an intelligent personal security and inspection system focused on real-time threat detection and user protection. Integrated facial recognition, and identity. Developed an intelligent personal security system for real-time threat detection. Integrated facial recognition and identity verification hardware/software modules.

Adv. Keylogger | Phishing Attack

Crafted a 100% efficient system to monitor user input for security purposes. Executed a seamless deployment plan, successfully sending the necessary files to the target. Crafted an input monitoring system to capture user input for security research. Executed deployment plans to deliver security payloads and achieve encrypted data delivery.

Additional projects: AML System | Anti-Money Laundering Platform, Loan Screening | Fraud Detection & Risk Assessment, Portfolio Website, DotDash Data Protection System, PERSONAL SECURITY AND INSPECTION DEVICE, Adv. Keylogger | Phishing Attack, AML System | Anti-Money Laundering Platform, Loan Screening | Fraud Detection & Risk Assessment

AWARDS

Patent Paper | DotDash Data Protection System, Patent Paper | PERSONAL SECURITY AND INSPECTION DEVICE, Python Data Structure, Best Web Design Award, Cybersecurity Club | Administrator, Programming Club | Member