

ISHAAN THAPLIYAL

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WORK EXPERIENCE

Cloud Security Intern

CYSTAR, IIT Madras

Dec 15, 2025 - Jun 12, 2026

Chennai, India

- Developed CloudGuard, a Dockerized cloud security and GRC platform for AWS, GCP, Kubernetes, IaC, and web application security scanning.
- Built FastAPI APIs, PostgreSQL-backed scan job queues, evidence ingestion endpoints, compliance dashboards, and scanner result/report workflows.
- Integrated scanner tooling including Trivy, Gitleaks, Nuclei, OWASP ZAP, CloudFox, Kubernetes kubeconfig-based checks, and IaC upload scanning.
- Designed a decoupled scheduler/worker architecture with scanner workers, evidence connectors, S3-compatible artifact storage, and Docker Compose/Dokploy deployment plans.

Intern

STUDIO 11

Jul 2025 - Sep 2025

Jabalpur, India

- Developed web scraping scripts to collect data from multiple sources, extracting 5,000+ records and reducing manual data collection time by 80%.
- Designed and normalized 5 PostgreSQL databases, improving query efficiency by 40% and enabling scalable data management.
- Delivered 10+ structured data pipelines supporting faster and more reliable analytics-driven decision-making.
- Designed and developed responsive web pages using Tailwind CSS, AstroWind, HTML, CSS, and JavaScript; optimized performance and cross-browser compatibility.

PROJECTS

CloudGuard / Cloud Vulnerabilities Scanner | Python, FastAPI, PostgreSQL, Docker,

2026

DigitalOcean

- Created a unified dashboard for cloud findings, scan history, credential management, remediation guidance, compliance summaries, and audit-ready evidence.
- Implemented evidence artifacts mapped to control IDs, source systems, scanner types, checksums, raw payloads, and metadata for GRC traceability.
- Prepared deployment options for DigitalOcean, E2E worker VMs, and Dokploy-based Docker hosting with separate portal, worker, database, and connector services.

Geospatial Surface Recognition System | Python, Data Processing, Research

2025

- Developed a geospatial surface recognition system to analyze terrain data covering 1,000+ sq. km.
- Processed 200,000+ data points and generated reports highlighting terrain patterns, improving decision-making speed by 30%.
- Conducted market and technical research across 5 competing solutions to guide feature and feasibility planning.

Studio11.com | Astro, HTML, CSS, JavaScript

2025

- Developed a fully responsive website with interactive features such as contact forms, product listings, and dashboard-style sections.
- Optimized frontend performance, cross-browser compatibility, and user experience across desktop and mobile devices.

Analysis on Engineering Colleges of India | Python, PostgreSQL, Data Visualization

2024

- Created a Python-based system to clean, process, and analyze data for 3,500+ engineering colleges in India.
- Derived 15+ actionable insights and visualized 15+ charts to compare rankings, courses, locations, and trends.

TECHNICAL SKILLS

Languages: Python, JavaScript (ES6+), TypeScript, Java, C, SQL

Backend / Web: FastAPI, Django, Django REST Framework, React, Express, Astro, Tailwind CSS, HTML, CSS

Databases: PostgreSQL, MySQL, MongoDB, database normalization, query optimization

Cloud / DevOps: Docker, Docker Compose, DigitalOcean, DigitalOcean Spaces, Vercel, Terraform, Caddy, Linux, Git

Security / Scanning: Cloud security, Kubernetes security, IaC scanning, Trivy, Gitleaks, Nuclei, OWASP ZAP, CloudFox

Data: Web scraping, ETL pipelines, data cleaning, data visualization, analytics-ready datasets

EDUCATION

VIT Vellore

2022 - 2026

B.Tech. in Computer Science

Pursuing

Class XII (CBSE)

2022

Senior Secondary

85.80%

Class X (CBSE)

2020

Secondary

85.16%