

Mrityunjay Shrivastava

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Skills

Programming Languages: Go, JavaScript, Java, SQL

Frameworks/Libraries: Gin, Nest.js, Next.js, React, Three.js, Jest, Mocha, TailwindCSS

Database: PostgreSQL, MySQL, MongoDB, Firebase, Supabase

Tools : Git, GitHub, Docker

Work Experience

Associate Software Engineer - Xona Systems, Hughes Systique Corporation (HSC) Dec 2024 – Present

- Built and deployed secure authentication/authorization APIs (Golang), strengthening enterprise security for 3 critical applications through MFA (TOTP/FIDO2) and Active Directory (LDAPS) integration.
- Established granular Role-Based Access Control (RBAC) policies and operationalized a Zero Trust Architecture for XCM Module, minimizing the attack surface and ensuring least-privilege access.
- Integrated SAML 2.0, OAuth 2.0, and LDAP to enable federated identity management and policy enforcement, strengthening the security posture, and meeting ISO 27001 requirements for application access.
- Applied Agile methodologies (scrum, sprint planning, reviews) to enhance development efficiency by 15% and accelerate feature delivery by 18%, consistently delivering client-driven solutions on schedule.

Graduate Engineer Trainee, Hughes Systique Corporation (HSC) Jan 2024 – Dec 2024

- Created a Node.js command line tool that leverages parallel Depth-First Search (DFS) and regex to analyze 2,028 legacy JSP files, automating the detection of authentication code and indexing unprotected files; identified 239 potential security vulnerabilities in the legacy Java codebase.
- Developed an automated XSS vulnerability testing tool using Puppeteer, targeting 8000+ URLs from generated CSVs and enabling comprehensive scanning.
- Accelerated a one-month legacy Java code audit and security testing project, delivering comprehensive results in just 18 days (including testing) through innovative automation solutions.

Projects

Indie Stori: E-Commerce store (freelancing) Live Link

- Independently engineered a full-stack e-commerce platform (React, Nest.js, MySQL) from scratch. Integrated Razorpay, Shiprocket, and SendGrid via asynchronous API batching, automating 90% of transactional workflows while supporting 800+ daily users.
- **Built Using** - React, Nest.js (express), MySql, Firebase, Tailwind CSS.

Patent

A Blockchain-Based Device and Method to Enable E-Health System for Combating Drug Abuse in India: Publication Number: 47/2023 November 2023

Invented a blockchain-powered platform to securely generate, verify, and trace electronic prescriptions, addressing India's prescription drug abuse epidemic. Enables authorized healthcare providers to issue tamper-proof prescriptions with cryptographic signatures and unique identifiers, ensuring end-to-end traceability in the supply chain. Tackles systemic challenges like fragmented healthcare and weak regulations by creating an immutable audit trail for prescriptions, reducing fraud and misuse.

Education

Manipal University Jaipur
B.Tech, Information Technology

CGPA: 8.67

Minor Specialization: Cloud Computing

Activities and Societies: Vice Chairperson, Creative Director, and Student Lead - MUJ ACM SIGBED

Certifications

Go - The Complete Guide - Maximilian Schwarzmüller

Udemy

May 2025

Cloud Digital Leader Certification

Google Cloud

May 2024

AWS Academy Cloud Foundations

AWS Academy

April 2023