Marsal Soren

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 Github   LinkedIn

Languages: English (Professional), Hindi (Native)

Work Experience

SDE Intern at AnantKaal, Remote   June 2024 – January 2025

- Collaborated with Cybernous Infosec Pvt Ltd to engineer a web-based e-learning platform serving 500+ users, enabling progress tracking and gamified rewards to boost learner engagement by 35%.
- Integrated a secure payment gateway using Firebase functions, reducing transaction failures by 20% and cutting manual intervention in billing by 40%.
- Streamlined backend workflows, decreasing API response latency by 25% and improving overall platform reliability.

Projects

Active Deployment Manager (ADM)

Technologies Used : Terraform, Ansible, Podman, nftables, Cloudflare Tunneling

- Architected an automated deployment pipeline that provisioned cloud infrastructure 3x faster than manual methods.
- Leveraged Terraform and Ansible to enforce OS-level hardening across 100+ nodes, enhancing compliance and reducing misconfigurations by 60%.
- Enforced role-based access policies and privilege isolation, lowering potential attack vectors by 45%.
- Deployed services with Podman under non-root execution, eliminating critical container vulnerabilities.
- Configured **nftables** firewall rules, cutting unauthorized traffic attempts by 70% during penetration tests.
- Secured infrastructure with **Cloudflare Tunneling**, ensuring Zero Trust access for distributed teams with 99.9% uptime.

Proactinet (Real-Time Network Monitoring & Threat Detection Platform)

Technologies Used : Django, Azure VM, Next JS, WebSockets, PostgreSQL

- Built a real-time monitoring engine capable of analyzing 10,000+ packets/second, achieving sub-200ms detection latency.
- Deployed anomaly detection algorithms with 95% accuracy, reducing false positives by 30% compared to baseline methods.
- Delivered interactive dashboards and real-time alerts, cutting incident response times from hours to under 30 minutes.
- Enabled long-term trend analysis for networks handling up to 1 Gbps traffic, improving capacity planning accuracy by 40%.

Pramaan Chain (Web3-based Evidence Management System)

Technologies Used : AWS, Angular JS, Solidity, HardHat, Node JS

- Designed a blockchain-backed evidence storage platform supporting 1,000+ secured entries, ensuring tamper-proof record integrity.
- Built CLI authentication tools for blockchain interaction, enabling multi-user access control and reducing onboarding time by 50%.

Technical Skills and Interests

- **Languages:** Golang, JavaScript, TypeScript, Python, C++
- **Technologies:** HTML, CSS, AWS (EC2, S3, Lambda), Cloudflare, Azure
- **Frameworks & Libraries:** Node.js, Golang Gin, Django, FastAPI, React.js, Next.js
- **Databases:** PostgreSQL, MongoDB, Firebase RTDB
- **Tools:** Visual Studio Code, Git, Docker, ffmpeg
- **Soft Skills:** Problem-solving, Self-learning, Adaptability, Team Work

Education

Sir MVIT, Bengaluru   November 2022 – July 2026
Bachelor of Technology in Electronics And Communication Engineering
CGPA: 8.6

DAV Public School, Bistupur
Class 12th, CBSE

DAV Public School, PatelNagar
Class 10th, ICSE