

NIRANCHAN D

ASPIRING DEVOPS ENGINEER



LINK TO PORTFOLIO

CAREER OBJECTIVE

Aspiring BE graduate with deep passion for DevOps solutions and hands-on experience in home-lab server management, Automation and cloud, looking for a dynamic team.

CONTACT

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EDUCATION

- **Degree (CGPA:7.71 upto IV semester)** - Bachelor of Engineering in Computer Science and Design (In progress) Kongu Engineering College, Erode, Tamilnadu, India.
- **HSC (73.6%)** - Good Shepherd English School, Karaikal, Puducherry.
- **SSLC (64%)** - Kendriya Vidyalaya, Karaikal, puducherry.

LANGUAGES

- ENGLISH
- HINDI
- TAMIL

TECHNICAL SKILLS

Cloud Technologies	AWS	Scripting	Python and Shell
Build Tools	MakeFile	Version Control System	Git, Github and Gitlab
Container technologies	Docker, Kubernetes	Infrastructure as code	AWS Cloudformation
CI/CD	Gitlab, Jenkins	Operating System	Linux, Windows, macOS

SOFT SKILLS

- Teamwork and Collaboration
- Time Management
- Adaptability
- Critical Thinking
- Problem Solving

PROJECT SUMMARY

COMPREHENSIVE HOMELAB NETWORK WITH PROXMOX, CLOUDFLARE AND RASPBERRY PI MANAGEMENT

- Engineered an advanced homelab setup using Proxmox OS on a dedicated PC, while seamlessly controlling it with a raspberry pi 4 running CASA OS.
- The primary server (PC) with proxmox is configured with cloudflare tunnel and secure access to be accessed anywhere on the internet with secure authentication and used to host many services including web server, VM's, VPN server, NTFY server, Docker and kubernetes services.
- The secondary mini-server (Raspberry pi 4) with CASA OS is used to controll the primary server's powerschedule using WOL and few network monitoring scripts to monitor network activities and other automation scripts.
- Both the server's are in a DMZ like network isolated from the home and guest network.

SAGE - A CLI ASSISTANT POWERED BY LLM'S

- A Command line assistant powered by LLM's to help users with command line tools and syntax.
- Sage is built over python 3+ and uses it's robust library to work with the LLM's .
- Libraries Used:
 - Crew AI
 - pyperclip
 - Langchain
 - questionnaire

ANTI-KIDNAP ALERT SYSTEM (DESIGN THINKING PROJECT)

- (Project Lead) Developed an RFID and GPS-based tracking system for school children's safety, integrating hardware (Raspberry Pi 4, RFID scanners, GPS) with a Python (Flask) web application for administrators.

SERVERLESS WEB APPLICATION ON AWS (ONGOING)

- Actively developing a serverless AWS web application for global online donations, focusing on a scalable and secure architecture.
- Leveraging AWS services like Lambda, RDS, IAM, S3, CloudFormation, Cognito, and Route 53.
- Utilising Serverless Framework for creating event-driven functions, managing user authentication through Cognito.
- Integrating MySQL and S3 for data storage.
- Aiming to deploy the application, enhancing skills in AWS technologies, database management, security, and DevOps practices.

CYBERSECURITY SOLUTION DEVELOPMENT - INTERNAL HACKATHON AND KAVACH 2023 HACKATHON

- Led team ShadowShell to secure 3rd place at Kongu Engineering College's internal hackathon and participated in KAVACH 2023 developing an innovative cybersecurity solution using Python, Docker and AI (image recognition).
- Selected as one of the top 10 teams to represent the college at the national-level KAVACH 2023 Hackathon organized by MoE's Innovation Cell, AICTE, BPR&D and I4C, Demonstrated leadership, technical skills and innovation in competing at both the institutional and national hackathon levels

AWARDS AND ACHIEVEMENTS

- Winner of CTF (Capture the Flag) competition conducted by College of Engineering Guindy, securing 3rd place (May - 2022)

HOBBIES

- Focused on learning new skills and staying updated with industry changes.
- Engaging in video games during leisure time for relaxation and mental stimulation.
- Volunteering my time to provide informal education and tutoring to peers and community members.
- Frequent general maintenance and repair of personal devices

CERTIFICATIONS AND COURSES

Certifications completed:

- Introduction to Industry 4.0 and Industrial Internet of Things, Completed (Jul - Oct 2022)
- Ethical Hacking, Completed (Jan - April 2023)
- Comptia A+ (Core 1) - Computer Hardware and Troubleshooting

On-going certifications and courses:

- AWS CLF C02 (cloud practitioner)
- AWS SAA-C03 (Solution Architect)
- Comptia Network+ (N10-008)