Mani S Neeraj

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PROFILE

I'm a final-year Computer Science engineering student with a keen interest in AI, prompt engineering, and cybersecurity. Over the past few years, I've developed hands-on skills in Python, C++, and React—building everything from secure systems to user-friendly interfaces.

I enjoy solving real-world problems through code, whether it's crafting responsive apps, working on secure architectures, or diving into ethical hacking. I'm also comfortable navigating DevOps tools and have a good eye for UI/UX design.

Beyond tech, I'm someone who loves to learning and communicating in multiple languages, and exploring how technology can make life easier across various platforms.

EDUCATION

07/2022 – 05/2026 Chennai, India	**SRM Institute of Science and Technology** 🔗 *B.Tech CSE, CGPA : 8.37*
07/2020 – 05/2022 Chennai, India	**Chennai Public School** 🔗 *12th Grade, CBSE*
06/2019 – 06/2020 Chennai, India	**SBOA Matric & Higher Sec. School** *10th Grade, SSLC*

SKILLS

Programming Languages:
>   Python, C++, C, JavaScript, HTML

AI / Machine Learning / Prompt Engineering:
>   YOLO (Object Detection), OpenCV, Convolutional Neural Networks (CNN), scikit-learn

Software Development & UI/UX:
>   Tkinter, PyQt, Responsive UI Design, Event-Driven Programming, Flask

Database & Backend:
>   SQL, SQLite, Supabase

DevOps & Tools:
>   Git, GitHub, VS Code

Cybersecurity & OSINT:
>   OSINT Tools, Ethical Hacking (Python), Cyber Defense (Cyber Samurai Program),
>   Secure System Design

Soft Skills & Languages:
>   Team Collaboration, Problem Solving, Communication, Time Management, Creative Thinking,
>   Conflict Resolution, Problem-Solving

PROJECTS

Image Detection System (Python, YOLOv5, PyTorch, CNN, OpenCV) 🔗
- Built a real-time object detection system using YOLOv5, achieving high precision on a custom 5000 image dataset.
- Integrated a CNN for feature extraction and optimized the pipeline with TensorRT, reducing inference time by 40%.
- Deployed as a lightweight desktop demo for edge devices, running at 30 FPS.

MoS – Mouse-to-Steering System (Python, Tkinter, pyvjoy, pynput) 🔗
- Developed a real-time mouse-to-joystick converter enabling smooth, analog-style steering for racing games.
- Implemented proportional input mapping with dynamic sensitivity control and customizable UI.
- Used in racing games to simulate realistic steering wheel input.

FRS – Face Recognition System (React, TypeScript, face-api.js, HTML, Tailwind CSS) 🔗
- Developed a browser-based face recognition system using face-api.js, enabling real-time detection and identity matching via webcam.
- Built a responsive React frontend with dynamic rendering for detection overlays and match status indicators.
- Designed for privacy-safe, client-side use cases in visitor logging, attendance, or identity demos.

SideKick – AI-Powered Desktop Assistant (Python, PyQt, OpenAI API, Claude, Gemini) 🔗
- Designed and implemented a floating desktop assistant that can respond contextually across any active app.
- Supports multiple AI models (ChatGPT, Claude, Gemini, DeepSeek) with switchable backends.
- Engineered prompt pipelines to enhance user input (summarization, code beautification, content generation).

CERTIFICATES

Cyber Samurai Program in Cyber Defense 🔗

Introduction to NVIDIA Jetson Nano 🔗

AI applications using Jetson Nano 🔗

Computer Networking

Ethical Hacking using Python

LANGUAGES

English

Tamil

German(Basic)

French(Basic)