

Aman Singh

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EDUCATION

- **NIT Silchar** Assam, India
B.Tech - Electronics and Communication Engineering - CGPA - 8.49 11/2020 – 06/2024
- **South Point School** Assam, India
HS - Science - Percentage - 90.2% 01/2017 – 12/2019
- **South Point School** Assam, India
10th - Percentage - 98% 01/2012 – 12/2017

INTERNSHIP EXPERIENCE

- **CDAC Silchar** Onsite
Cybersecurity Intern May 2023 - July 2023
 - Built a Host-based Firewall in Python and Bash.
 - Near-zero external dependencies.
- **ARM Embedded Technologies** Onsite
SoC Engineering Intern January 2024 - June 2024
 - Optimised LMBench binary runs on various platforms with custom scripts.
 - Successfully booted Linux on prototype platforms.
 - Compiled performance metrics for kits and improved "glue code".

PROJECTS

- **All-Eyes — Network Intrusion Detection System**
Backend Developer May 2023 - July 2023
 - Used Python and Bash to build a packet analyzer from scratch.
 - Setup requires minimal libraries and external dependencies.
 - Explored raw socket control in Linux and a closed-network web console for firewall and rule-set control.
 - Technologies and Tools used: HTML, Tailwind-CSS, JS, Linux, Flask, MySQL.
- **VideoChat**
Full-Stack Developer May 2022 - June 2022
 - A lightweight video chatting platform using Django channels, WebRTC, and WebSocket.
 - Used Django channels to implement WebSocket.
 - Used WebRTC for reliable video streaming.

SKILLS

- **Languages:** Python, Bash, C++, Java, JavaScript, SQL, Dart, Arduino, SonicPi
- **Frameworks:** Django, ReactJS, Kali Nethunter, Metasploit Framework, Flask, ROS, Flutter
- **Tools:** VS Code, Docker, GIT, Vim, MySQL, Android Studio
- **Platforms:** Linux, Web, Windows, FreeNAS, Arduino, Raspberry Pi, AWS, GCP
- **Soft Skills:** Mentorship, Writing, Enthusiasm, Public Speaking, Time Management

POSITION OF RESPONSIBILITY

- **Robotics Club, NIT Silchar** Onsite
Technical Head (Full-Time) May 2022 - Ongoing
 - Conducting workshops and education on robot synthesis.
 - Responsible for generating a culture of robotics.
- **GrowerLabs** Remote
Backend Developer (Part-Time) May 2021 - July 2022
 - Developed applications and worked on APIs and web technology for clients.
 - Worked with a team of developers and specialized in Django, HTML, and Flutter.

CERTIFICATIONS

- **TryHackMe:** Advent of Cyber 2022
- **TryHackMe:** Red Teaming Pathway

OTHER INTERESTS/EXTRACURRICULAR ACTIVITIES

- Robotics
- Hardware Modding and Repair
- RPGs and Detective Video Games