

Aryan Karekar

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[GitHub](#) | [LinkedIn](#) | [TryHackMe](#) | [Codeforces](#) | [PicoCTF](#) | [Personal Blog](#)

Skills

- **Web Automation / Development:** Experienced with web scraping frameworks such as Scrapy, Selenium, Playwright, Puppeteer and able to implement custom scrapers from scratch in Python and Javascript. Experimented with creating bots for social-media platforms using [Discord.py](#) and [Discord.js](#), [WhatsApp Bots](#) and IRC bots using custom socket implementations in Python. Able to develop and maintain web applications with the help of modern technologies such as Flask, Django, Express.js, Tailwind.css, Jekyll, Hugo, Quartz4, cPanel.
- **System Administration of UNIX-based system:** Proficient with Bash scripting and common command-line utilities (vim, wc, chmod, grep, find, lsblk, mkfs, mount/umount, awk, cURL, git, etc), Docker, virtual machines (VMware, Oracle VirtualBox), package management (apt, pacman), remote access protocols and configuration of system services (NGINX, Apache2, systemd, cronjobs).
- **Offensive Security:** Experimenting with Domain and Network Enumeration (Gobuster, FuFF, nmap), Web Application Testing (browser console, netcat), OSINT, Packet Capture and Analysis (Wireshark) and Password recovery (John the Ripper and Hashcat). Participating in Capture The Flag challenges and activities on TryHackMe, HackTheBox and PicoCTF regularly.
- **Other:** Experienced with Raspberry Pi, ESP8266/ESP32, and Android ROM beta testing (PixelOS, Evolution X, crDroid, etc.). Comfortable with Linux, Python, OSINT, web protocols, and cybersecurity fundamentals. Exposure to data science, LLMs, and generative AI. Currently exploring reverse engineering, embedded firmware, and low-level systems.

Projects

- [Ryukendo](#): A wordlist generator that uses social connections for generating passwords. Utilises intermediate mathematical concepts such as cartesian products, permutations and combinations and probability distribution to generate, sort and rank possible passwords. Written in Python.
- [Ngzi](#): A prototype botnet script that utilises the IRC protocol as a means of command-and-control between victim machines and the host. Uses the client-server model with custom sockets programming for receiving shell commands and sending output to the IRC server. Written in Python.
- [WhatsApp Chat Summariser](#): Lead the development of a chat summary service that pulls messages from chats, sends them to a local LLM, and uses a publish-subscribe system to send a notification back to the phone. Written with JavaScript on the Node.js runtime with Axios, Whatsapp-web.js, NTFY, Ollama, and Deepseek-r1:7b.

Education

2024 - Present **Padmabhooshan Vasantdada Patil College of Engineering, Bavdhan** - Pursuing C.S B.Tech, currently in Second Year.

2022 - 2024 **Aditya English Medium School, Baner** (11th and 12th): Obtained 73.83%

2015 - 2022 **Dr. Kalmadi Shamrao High School, Baner** (10th) Obtained 83.80%