

Vikas Hegde

Freelancer • Ethical Hacker • Software Developer

About me:

I am a 21 year old high school graduate (Plus 12) currently pursuing an undergraduate degree at RV University (5th Semester) with an extreme interest in computer science and **cyber security** (<https://vikas-hegde.vercel.app/>). I am currently pursuing a computer science degree at RV University in Bengaluru. I have discovered several zero-day exploits across different software, developed several malware (for educational purposes without causing harm to anyone), developed 60+ websites, 20+ discord bots for multiple businesses as an independent freelancer.

Areas of Interest:

These are my areas of interest::

- OSINT
- Network and Application Security
- WebApp Development - Frontend and Backend
- Automation
- Ethical Hacking and Reverse Engineering
- Data Science (AI/ML)

Programming Languages:

Javascript, Golang, Rust, Python, LUA, Java, C++, C#, HTML & CSS, C.

Experience in Tools and Frameworks:

MySQL, MongoDB, Pocketbase, React, ThreeJS, Dart, React Native, Electron, Cloudflare, Angular, NextJS, TailwindCSS, Tauri.



50+ websites,
20+ discord bots,
2+ Zero-day exploits,
15+ Capture The Flag



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Work Experience:

Mobile app development contractor (1 year)

Developed a full scale app for Redfernstech as a contractor for mobile app development as a solo developer and developed the full app alone and deployed on all platforms.

Lead Software Engineer (1 year 8 months)

With almost 2 years of experience as a Lead Software Engineer at Social Syncing (formerly Kirabiz Technologies) I got to work on a lot of projects involving website development, data science and cyber security. I also built my team management skills during this time period. Currently working on an internal team management tool.

Internship at Cisco as a web developer (6 months)

I worked as the lead web developer of a Cisco project for a 6 month time period, the website was made for an event organizer who organized events like birthdays, marriages etc.

Freelancing (6 years)

I've worked as a freelancer in the tech industry for a long time, and have built several websites, apps and backends for various clients.

Other Experiences:

2024 - 25:

- *College Clubs*

I'm currently the interim President of the Cybersecurity Club in my university, the head of outreach and sponsorships at the marketing club (Socials @socialsrvu), a core member of the tech team at the Google Developer Groups, a core member of the tech team and the content creation team for the Robotics club (Chiptech) and a member of the content creation team at the Representatives Club.

- *Events*



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I've been part of the hosting committee of several CTF's and hackathons that took place in the university having built key infrastructure for all of the said events. I've also taken part in multiple global CTF's, placing top 10 in the "SK CERT Cybergame CTF" held in 2025, and top 50 in many more. I also won 2nd places in two inter collegiate ideathons.

2023:

- *Malware Development*

I've written various types of malware to gain knowledge (without harming anyone), some of them include RAT's (Remote Administration Trojan) and spywares for almost every popular operating system. I also wrote botnets and ransomwares for understanding how they are done. I wouldn't be lying if I said malware is all I did for about 6-7 months continuously.

- *Discord bots and websites*

I've made 40+ websites and 20+ discord bots for multiple businesses and people as an independent freelancer over the time period of three years. Most of these websites were forums for Minecraft servers, and online casinos, most of these no longer exist due to various issues. Here are some websites I made for clients I met physically: <https://www.championsactingacademy.com/>, <https://fashionterexventures.com/>, <http://vestidomodas.com/>

2022:

- *Phoenix Firewall*

This was an IT solution I made in 2022 for Minecraft servers and online casino websites. This was a firewall to protect a customer's servers from DDoS attacks and other malicious payloads.

- *Minecraft mod malware detection and reverse engineering*

I wrote a simple "antivirus" for Minecraft modifications as malware in these mods could not be detected by regular anti virus programs, and ended up not selling this as a product and instead just distributed it among close friends of mine to prevent getting our information stolen.



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- *CTF's (Capture the flag)*

I have participated in over 15 capture the flag events in 2022 and won first place in three of them. These capture the flag events comprising most of the primary cybersecurity fields, like Binary Exploitation, Web exploitation and OSINT. We would have to solve challenges from these topics to get a flag, and at the end, the team with the most points would win.

- *Mobile app developer*

Developed a healthcare focused app "Arogyakari", consisted of features like appointment bookings, blood banks etc.,

Developed a shloka app containing all the shlokas in text and audio which were taught in my shloka class.

Developed a dating app for a private company which had the features of a generic dating app

Developed a matrimony app for a private company which had the features of a generic matrimony app.

All of these apps were for both iOS and Android.

2021:

- *Zero-Day Exploit Discovered: Windows 10 font loader buffer overflow exploit (Group effort)*

Fonts could be used to cause a DoS/bluescreen in a system running Windows 10 20H2. This could also lead to an RCE if engineered well. This zeroday was found with a group effort of three people including me.

- *Zero-Day Exploit Discovered: D-Link 2013 IP Camera (Solo)*

This camera was used in my school, when I was just looking around for any vulnerabilities, I found out that D Link hardcoded the root credentials, allowing me to take complete control of the CCTV system. There were about 86 thousand devices affected.

- *These are only some of the big Zero-day exploits I found, there were many more found through both group and solo efforts (they were mostly related to video game plugins and modifications and small websites).*



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- Machine learning projects: I had a brief interest in Machine learning in 2021. I made projects like an ML model to predict the stock market with old datasets, converting face reactions to emotes, predicting diseases in leaves using pictures and many more similar projects.

2020:

- *EEG Blink Based brain controlled miniature wheelchair*

This project was created to compete in the World Robot Summit 2020. Its working was based on the EEG waves produced by the neurons in our brain. The project used a simple Arduino microcontroller for the wheelchair's movement.

2019:

- *Robots with Arduino and Raspberry Pi 2*

I have made robots like a plant watering robot, floor cleaner robot, a Li-Fi powered speaker and many more simple projects in 2019 with microcontrollers like Arduino and Raspberry Pi 2.

General Information:

Name: Vikas Hegde

Sex: Male

E-mail: vikas@essgi.in

Nationality: Indian

Phone: +91 79752 20413

Website: <https://vikas-hegde.vercel.app/>



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<https://github.com/Ryuzaki-3301>