

Ayush Dutta

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Technical proficiency

Skills

- Version control, Problem-solving, API Integration, Testing and Debugging, Binary Static Analysis and Reverse Engineering, Stable and Rolling release Linux distributions

Tools

- Automation & DevOps: Git, Github, Docker, Github Actions
- Reverse engineering: IDA, x64DBG, PEstudio, x86 Assembly
- Database management: PostgreSQL, MySQL
- Programming Languages: Python, C, Bash, Lua, Javascript

Work experience

Summer Intern - BITS Pilani, Hyderabad

6/2024 – Present

- Working under the guidance of Prof. Dr. Tamoghna Ojha, Dept. of CSIS
- Benchmarking network algorithms for research project on Wireless Crowd Charging Algorithms

Personal projects

CCTV vault theft detector

- Fine-tuned YOLOv5 dataset of 13659 human images
- Achieves 80% detection accuracy using PyTorch and mpv

Shellcode injection malware

- Developed a tool in C capable of spawning reverse shells on Windows systems
- Evades detection by 74 anti-malware tools on VirusTotal

System-Fetch

- Utility to display system software and hardware specifications
- Faster, minimal and lightweight neofetch replacement in Python3

Neovim distribution

- IDE-grade configuration for the Neovim text editor written in Lua
- Includes autocompletion, file fuzzing, and easy extensibility

Education

SRM University Andhra Pradesh - Bachelor of Technology

7/2023 – Present

- Pursuing Computer Science and engineering (with CyberSecurity specialisation)

Delhi Public School Ruby Park, Kolkata - Intermediate, Pure Sciences

2021 – 2023

Delhi Public School STS, Dhaka - Matriculation

2019-2021

Volunteering experience

- Workshop trainer for introducing 193 attendees to Git & Github at **GDSC IIT Madras**
- Educated 214 attendees to Linux and its benefits in software development and deployment at **GDSC IIT Madras**
- Wrote articles of **Hashnode**, composed content about Linux, Docker and Security frameworks with friends
- Mentored and fostered a vibrant Linux Community from scratch to 330+ in 3 months at **GDSC IIT Madras**

Achievements

- Achieved 1100+ followers by creating content about coding and engineering on **LinkedIn**
- Selected for Honourable mentions at Intra campus hackathon - **9Hacks**
- Won free student pass for **Vulncon** Bangalore 2024 in a giveaway