

Pranshu Ranakoti

India

LinkedIn : [/in/rpranshu](https://in.linkedin.com/in/rpranshu)

Portfolio : rpranshu.github.io

EDUCATION

University of Maryland

ME, Cybersecurity, GPA 3.622/4 (Top 10% of the class)

- **Graduate Student Government:** Academic Affairs Committee, Provost's SAC
Cybersecurity Program Representative, Student Facilities Fund Rep.

College Park, MD

Aug '19 - May '21

GD Goenka University

B. Tech, Computer Science & Engineering, GPA: 8.28/10 (Top 10% of the class)

- **Specialization:** Business Analytics & Optimization (program run by IBM)

Gurugram, India

Aug '15 - June '19

SKILLS

- **Focus Areas:** Cyber Transformation, Attack Surface Management, Cyber Threat Resilience
- **Programming:** Bash, Python, C, Assembly (intel x86)
- **Tools/Frameworks:** Qualys, Nmap, ServiceNow, Visio, Splunk, Burp Suite, Git, GDB, JIRA, Metasploit, Splunk, BeEF, SET, Maltego, SQLmap, etc.

EXPERIENCE

Cybersecurity Consultant, Ernst & Young, New York, NY

Aug. '21 - June '23

- **Led** Security Operations automation efforts for a VM project, to be utilized by all the workstreams and built five different automation and SOAR tools & scripts.
- **Led** external exposure analysis on a client's 5 million internet-facing assets over 400 different ports using custom built tools and automation scripts.
- **Co-Led** GRC phase on a Threat & Vulnerability Management project for a top Healthcare client.
- **Conducted** regular Threat Intel review for a client based on internal vulnerability and threat reports; provided recommendation on the correct security rating which is tailored on a range of threat-intel criterion.
- **Developed** NIST CSF library along with a cyber reference architecture for a top six bank. Also created a triple mapping between NIST CSF, CRI and FFIEC CAT.
- **Co-Led** cyber metrics development across 20 different cybersecurity domains, creating over 350 cybersecurity metrics for a top 6 bank. Conducted feasibility study, threshold, and rationale analysis for the same.
- **Led** IAM gap assessment efforts for a Governance and Oversight project.
- **Led** client meetings, remediation campaigns and brain meddling sessions for a top 3 TMT firm. Also developed process improvement tools to enhance the BAU processes across workstreams such as CVE validation, host discovery, etc.
- **Led Coaching & Development** of incoming staff, seniors, and managers on the BAU processes and other technical aspects across project workstreams. Created several SOPs for daily BAU processes.
- **Supported** internal efforts to pursue new clients and created whitepapers after identifying new research avenues for TMT and other industries.

Threat Detection & Response Intern, Ernst & Young, New York, NY

Jul. '20- Aug. '20

- **Assessed** client's technology architecture.
- **Created** MITRE correlations for client's Carbon Black endpoints.
- **Monitored** client's HIDS and devised innovative solutions for threat hunting.
- **Managed** client's Splunk dashboards and produced solutions to improve the current setup.

DISTINGUISHED PROJECTS

Eternal View*, 2018

Built an open source **all in one information gathering, vulnerability assessment and exploitation tool** in BASH which is useful for determining loopholes in the security of various workstations, servers, etc.

Adrift, 2018 (<https://raosaurav.itch.io/adrift>)

Created an arcade cosmos theme game in C# using Unity. Winner of India Game Summit 2018, Game development hackathon organized by Kajaani University, Finland.

Health Chain (IEEE, 2017) (<https://www.microbot.com/single-post/Blockchain-Project-engcollege>)

Developed a blockchain based solution working in a team of five to upgrade the current management architecture from traditional databases to cloud based decentralized platform using blockchain.

*: Repository is active on GitHub (along with more open-source projects): <https://github.com/rpranshu>

SELECTED PUBLICATIONS

P. Ranakoti, S. Yadav, A. Apurva, S. Tomer and N. R. Roy, "**Deep web & online anonymity**" *2017 International Conference on Computing and Communication Technologies for Smart Nation (IC3TSN)*, Gurugram, **2017**, pp. 215-219. (<https://ieeexplore.ieee.org/document/8284479>).

S. Yadav, P. Ranakoti, A. Apurva, S. Tomer and N. R. Roy, "**Android vulnerabilities and security**" *2017 International Conference on Computing and Communication Technologies for Smart Nation (IC3TSN)*, Gurugram, **2017**, pp. 204-208. (<https://ieeexplore.ieee.org/document/8284477>).

S. Tomer, P. Ranakoti, A. Apurva, S. Yadav and N. R. Roy, "**Data recovery in Forensics**" *2017 International Conference on Computing and Communication Technologies for Smart Nation (IC3TSN)*, Gurugram, **2017**, pp. 188-192. (<https://ieeexplore.ieee.org/document/8284474>).

A. Apurva, P. Ranakoti, S. Yadav, S. Tomer and N. R. Roy, "**Redefining cyber security with big data analytics**" *2017 International Conference on Computing and Communication Technologies for Smart Nation (IC3TSN)*, Gurugram, **2017**, pp. 199-203. (<https://ieeexplore.ieee.org/document/8284476>).

ADDITIONAL EXPERIENCE

Security Analyst, Pyramid Cyber Security & Forensics, Gurugram, India Jan. '19 – June '19

- Performed vulnerability testing, penetration testing and risk analysis on Web, Android, IOS and Network based projects. Mostly manual testing was done with little reliability on automation tools.
- Provided all responsible disclosures following the PTES guidelines, before the deadline and managed all the resources wisely. This helped my team in completing revalidation and retesting of 3 projects in a week.

Student IT Assistant, University of Maryland Libraries, College Park, MD Sep. '19 – Nov. '19

- Manage virtualized servers for file services, backup/restore, departmental and personal web hosting, mail, public printers, staff authentication, and other enterprise needs for core service production or research projects.
- Provide hardware and software support for the libraries' public Pay4Print, reserves, interlibrary loan, and the university-wide video website, USMAI Library, and USMAI electronic databases and journals system.

ACHIEVEMENTS

- Winner of India Game Summit 2018, Game development hackathon organized by Kajaani University, Finland.
- Invited to Mangalore institute of Technology, by the IEEE Karnataka chapter to deliver a 2-day workshop on Ethical Hacking.
- Intel Hall of Fame - Appreciated by the external security research team of Intel for finding a vulnerability on their website. (**Infosec-SK-12072015CA**) **June 2017**.
- Delivered and conducted a series of Information Security workshops on "Understanding the art of exploitation" at GD Goenka University.
- Presented IEEE Technergize project at the IEEE CSIS 2018.
- Currently under Top 20 Bash developers on GitHub in India. (Source: GitHub Awards).