

# Ravi Prakash [Tripathi]

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## WORK / INTERNSHIP

### Technical Intern (Research)

JAN 2024 - Present | [Siemens Technology and Services Pvt. Ltd.](#)

Working on a multi-domain authentication problem.

- Exploring various authentication methods and scope of improvement.
- Tools/Skills: Literature Analysis, Deep Learning, Python

### Teaching Assistant [[link](#)]

MAR 2023 - JUN 2023 | [Digital University Kerala](#) | M.Sc. Cyber Security

Modern Cryptography (Lab), Spring 2023 (M3022201)

### Blockchain (Security Research) Intern [[project](#)]

FEB 2022 - JUN 2022 | [Kerala Blockchain Academy](#) | Certificate

Worked on Blockchain Attacks & Security under supervision of Sr. researchers.

- Analyzed Bitcoin/Ethereum/Hyperledger vulnerabilities from CVEs
- Tools/Skills: Topic Modeling, Machine Learning, Blockchains, Python

### Penetration Testing Intern

OCT 2021 - DEC 2021 | [Virtually Testing Foundation](#) | Badge

Worked on OWASP Top-10 vulnerabilities and prepared 10+ pen-testing reports.

- Completed a CTF challenge successfully
- Tools/Skills: Pentesting, BurpSuite, Wireshark, SQLmap, Metasploit, Netcat.

### Content Analyst

JUN 2020 - OCT 2020 | [The Data Tribune](#)

Worked with the core team for data analytics & SEO in the early initial phase.

- Build NLP models and real-time data processing solutions.
- Tools/Skills: Data Science, Social Media Analytics, Insight Building, SEO, R

## PUBLICATION / RESEARCH

(3+ years)

- **Prakash, R.**, Nayar, G.R., Thomas, T. (2023) Security Risk Assessment of Metaverse Based Healthcare Systems Based on Common Vulnerabilities and Exposures (CVE), IEEE International Conference in Recent Advances in Systems Science and Engineering (RASSE)
- Sharma, A., Dutta, M., **Prakash, R.** (2023) Comparative Performance Analysis of ML Algorithms for COVID-19 in India, International Conference on Artificial Intelligence of Things (ICAIoT). (Session's Best Paper)
- **Prakash, R.**, Anoop, V.S, Asharaf, S. (2022) Blockchain technology for cybersecurity: A text mining literature analysis. International Journal of Information Management Data Insights. Volume 2, Issue 2. [Q1]

## SKILLS

Programming, Scripting &

Markup Languages:

Python, R, C/C++, JavaScript, A-frame, Java, PHP, Golang, Prolog, Assembly x86, Shell Scripting (*bash*), HTML, CSS, LaTeX

Version Control & Others:

Git, SQL, Biometrics, Nmap, BurpSuite, Cryptography, NLP, Blockchains, Docker, Metasploit, Google Clouds, Linux, Data Structures & OOPs, AI/ML, Data Science, Adobe Suite, WordPress

## ATTRIBUTES

- Good Communication
- Fast Learning
- Time Management
- Critical Thinking & Problem Solving
- Teamwork & Leadership

## HOBBIES

- Open Source Projects
- Attending tech meetups
- Photo Editing & Podcasts
- Blogging & Public Speaking
- Poetry & Philosophy

- **Prakash, R.**, Thomas, S.S. (2022) Asymmetric Encryption Techniques for Data Embedding and Authentication in Fingerprints Using Eigen Space Based Modelling. (*M.Sc. Thesis*)
- Vashisht, G., **Prakash, R.** (2020) Predicting the Rate of Growth of the Novel CoronaVirus 2020. International Journal on Emerging Technologies (IJET). Volume 11, Issue 2.

## EDUCATION

<b>Digital University Kerala, Trivandrum</b> <i>Ph.D. Computer Science (Immersive Technologies)</i>	NOV 2022 - PRESENT
<b>IITM-Kerala, Trivandrum</b> <i>M.Sc. Computer Science (Cybersecurity Major - Research Based)</i>	OCT 2020 - JUL 2022 9.26 GPA
<b>University of Delhi, New Delhi</b> <i>B.Sc. Hons. Computer Science (First Division - Research Based)</i>	JUL 2017 - AUG 2020 7.97 CGPA
<b>Jawahar Navodaya Vidyalaya (Fbd.), Haryana</b> <i>10th &amp; 12th Grade (99% in Computer Science)</i>	AUG 2013 - APR 2017 88%

## PROJECTS

- **dyPixa** ([link](#))  
Maintained during Hacktoberfest-10 | Aimed to dynamically generate abstract images using Computer Vision, ML, and Sentiment Analysis.
- **custom-kali-linux** ([link](#))  
A collection of customized Kali Linux images for various cybersecurity security professionals (built on Docker).
- **SecureAuth-SA** ([link](#))  
A highly secure authentication system consists of a novel cryptographic mechanism
- **CaterApp** ([link](#))  
A TCP-based files sharing utility that can be accessed via bash terminal. It can also encrypt files before transmitting, ensuring a secure transfer.
- **Secret-Box** ([link](#))  
A secure task manager application developed with Python, SQLAlchemy, Flask, Docker, HTML, CSS & JavaScript.
- **Chat-Secure** ([link](#))  
A TCP-based end-to-end chat-room application available with CLI and GUI interfaces.

## AWARDS AND RECOGNITION

- **Qualified for CSI InApp Award (Round-1)**  
APR 2022 | by Computer Society of India (CSI) | AI/ML, Biometrics & Cryptography
- **GATE Qualified**  
2023 - 2026 | **92.85<sup>th</sup>** (*percentile*) | Subject: CSE
- **Bug reported in IITM-K Live (moodle) Server**  
JAN 2021 | Download Restricted Slides

## CO-CURRICULAR (*recent*)

- Peer Learning lead at Innovation Club, DUK
- Founder of HackClub-DUK  
Affiliated with HackClub (now Hack-X)  
(SEP 2021 -Present)

## ADDITIONAL ROLE

- Co-founder of Jjeeevisha (NGO)

## PORTFOLIO WEBSITE

I'm up for any new metaverse, XR or cyber security project.  
(*contact links on portfolio*)



[ravi-prakash1907.gitlab.io](https://ravi-prakash1907.gitlab.io)

→ **Outstanding performance during M.Sc. Degree**

OCT 2020 - JUL 2022 | **Topper** | 10 CGPA in Sem-4

→ **Second position in the Advance Category of NetScout Cyberathon**

MAY 2022 | **Won \$500** | Developed an Authentication Tool

→ **Organizer of Encrypt-CTF**

APR 2019 | Research & Development Team | University of Delhi

→ **Other Achievements/Participations**

- Multiple **Coursera** certification in **Cybersecurity, Data Science, and XR.**
- **NCC** (National Cadet Corps) A-Certificate
- Actively participating in GDG and DefCon (Trivandrum) meetups

**LANGUAGES**

**Hindi** (native),

**English** (C1 Proficiency, DET 135),

**Urdu** (basic)