Aryan Chandrakar

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EDUCATION

Carnegie Mellon University

Pittsburgh, PA

Masters in Information Technology Information Security - 3.91/4 CGPA

Aug 2022-Dec 2023

Introduction to Information Security • Information Assurances • Cyber Law & Ethics • Telecommunication and Computer Networks • Adversarial Machine Learning • Browser Security • Ethical Pentesting • Cyber Risk Modeling

Vellore Institute of Technology

Vellore, TN

Bachelors in Computer Science (minor Info. Security) - 9.13/10.0 CGPA

July 2018-May 2022

Cryptography • Blockchain & Cryptocurrency Technology • Web Security • Cyber Security • Data Privacy

Python • Java • JavaScript • SQL • Windows • Linux • Wireshark • Cryptography • TLS-SSL • TCP/IP • Browser Extensions • Security Frameworks • Networks & Telecommunication • Web-Development • Research • Microsoft Office

EXPERIENCE

Data Privacy Intern

July 2021-August 2021

Imphy Ugine Precision

- Evaluated employee's data privacy on a social network on a web application constructed to target the data cluster, links, and sparsity issues to save from homogeneity attack
- Diagnosed the non-anonymized data to assess the chance of identifying a particular personal
- Came up with a recommender system which uses L-diversity & T-closeness anonymization to provide better online privacy to users, using python & web-development tools

Application Development Intern

May 2020-July 2020

Jindal Stainless Ltd.

- Reduced halt time spent in several phases by establishing a data managing application using Java
- Optimized the resource spent on managing the products and equipment, with need of only a single authority to handle it all

MAJOR PROJECTS & RESEARCH WORK

•	Privacy Preserving Plugin	Ongoing
	o Cover user generated queries to give minimal private information not allowing website to render tracked personalized content.	
	o Query social networking services using public information to generate anonymous requests.	
•	Securing Private Infrastructure with Smallstep step-ca server	2022
	 With a team, developed an automated certificate token issuer for password-less logins. Solved the access management issues by leveraging their existing OIDC compliant IAM systems with automated revocation, authentication & authorization. 	
•	Approach to Deal with Issues of False Privacy & Security	2022
	 Trunk Routing Protocol: Decreased network latency from 725ms to 65.68ms, with introduction of improved version of Onion routing protocol developed in python. System-Network Accessor: Developed system and browser assessor using python, web-dev 	
	tools to keep secure with only effect of 0.4% in retransmission and 1.6ms for latency with almost nil effect on CPU load.	
•	Image Protected Hypertext Transfer Protocol	2021
	o Introduced communication protocol to hide packet besides encrypting as in HTTPS, providing a security of 2.6*10^21 yrs. against brute force attack.	
	 Developed using python, reduced chance of MITM attack during communications. 	
•	Parallel Web Crawler and Vulnerability Assessment	2021

Parallel Web Crawler and Vulnerability Assessment

2021

- o A crawler that runs 6% more efficiently with user centric alerts and secure development.
- Developed in python, fetches the links and hyperlinks from any website, the crawler also performs a vulnerability scan on them including the XSS, SQLi, SSL stripping etc.

CERTIFICATIONS & EXTRA-CURRICULAR ACTIVITIES

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•	Microsoft Certified: Security, Compliance & Identity Management	Ongoing
•	Gold Level NASSCOM Certified Security Analyst	2021
•	UMD: Software Security Specialization	2021
•	Math – a – thon Rank-2 Honour	2020
•	Reader & Athlete	