Bhupendra Acharya
Curriculum Vitae

Saarbrucken, Germany
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Research Interests

Web and Network Security; Phishing, Scams and Abuses; Applied Security Attack, Detect and Defenses.

Education

Jan 2018 – Dec 2023	**Doctoral in Engineering and Applied Sciences** Department of Computer Science, University of New Orleans **Thesis**: Analyzing the Robustness of Social Engineering Attacks on Defense Systems	

Jan 2018 – Dec 2020
MS in Computer Science (Cyber Security)
Department of Computer Science, University of New Orleans
Thesis: PhishPrint: A Novel Framework for Scalable Evaluation of Web Security Crawlers and Mining of Unknown Cloaking Vectors

Jan 2007 – Dec 2010
BS in Computer Science
Department of Computer Science, Cameron University

Academic Experience

Mar 2023 – Present
Postdoctoral Researcher. CISPA Helmholtz Center for Information Security, Germany.
Advisor: Dr. Thorsten Holz

Jan 2018 – Dec 2022
Teaching / Research Assistant (PhD Student), University of New Orleans, LA, US.
Supervisor/Advisor: Dr. Mahdi Abdelguerfi / Dr. Phani Vadrevu

Industrial Experience

2021 - 2022 – **QA/SDE-T Payments and Devices**. Amazon Inc.
2013 - 2018   Seattle, WA and Sunnyvale, CA, US.

2012 - 2013 – **SDE-T/Web and DB**. Raima Inc.
Seattle, WA, US.

2011 - 2012 – **SDE-T/Payments CRM Dynamics**. Microsoft Inc (Contracting via PeopleTech Group).
Redmond, WA, US.

Honors and Awards

2022	**Innovative and Think Big**, HackaFire Amazon Fire TV and Devices Awards
2021	**Offensive Attack**, Google Vulnerability Rewards (Twice)
2021-2022	**Conference Grants,** USENIX Registration (2021), DIMVA Travel (2022)
2007-2010	**List of Honors,** Cameron University Dean's List

Publications (peer-reviewed)

[1] <u>Bhupendra Acharya</u>, Muhammad Saad, Antonio Emanuele Cinà, Lea Schönherr, Hoang Dai Nguyen, Adam Oest, Phani Vadrevu, Thorsten Holz. ***Conning the Crypto Conman: End-to-End Analysis of Cryptocurrency Technical Support Scams.*** *In Proceedings of the 45th IEEE Symposium on Security and Privacy (IEEE S&P), 2024.*
Acceptance Rate: 100/582 (17.18%)

[2] Hoang Dai Nguyen, Karthika Subramani, <u>Bhupendra Acharya</u>, Roberto Perdisci, Phani Vadrevu. ***C-FRAME: Characterizing and Measuring in-the-wild CAPTCHA Attacks.*** *In Proceedings of the 45th IEEE Symposium on Security and Privacy (IEEE S&P), 2024.*
Acceptance Rate: 70/601 (11.64%)

[3] <u>Bhupendra Acharya</u>, Phani Vadrevu. ***A Human in Every APE: Delineating and Evaluating the Human Analysis Systems of Anti-Phishing Entities.*** In *Proceedings* of the 19th Conference on *Detection of Intrusions and Malware & Vulnerability Assessment (DIMVA),* 2022.
Acceptance Rate: 11/39 (28.2%)

[4] <u>Bhupendra Acharya</u>, Phani Vadrevu. ***PhishPrint: Evading Phishing Detection Crawlers by Prior Profiling***. In *Proceedings* of the 30th *USENIX Security Symposium (USENIX Security),* 2021.
Acceptance Rate: 246/1316 (18.7%)

Research (under review at conferences)

[5] The Imitation Game: Exploring Brand Impersonation Attacks in Social Media [Round 1, USENIX Sec Winter'24]

Research (in pipeline to submissions 2-4 months)

[6] ScamChatBot: Analysis of Fake Account Recovery in Social Media via LLMs-based Automated Chat Conversations with Scammers *(CISPA student's Master thesis work, <u>Target CCS April 29, 2024</u>)*
[7] PhishTail: Measurement Study on Long Tail of Phishing Target via Wiki-Centric Corpuses. (*External collaboration, <u>Target CCS April 29, 2024</u>*)
[8] GhostCoins: Exploration of Scamming Cryptocurrency Wallets in the Android Apps and Extensions*. (CISPA student's Bachelor thesis work, Target TBD)*
[9] Analysis of Regional and Categorical Filterlists Biasedness in the Web (*external collaboration, Target TBD*)
[10] Buy and Sale of Social Media Profiles (*CISPA student's Master thesis work, Target TBD*)

Teaching

CS 2467   Systems Programming and Concept, Instructor
> **2021**: Spring and Summer Semesters
> **2020**: Spring, Summer, and Fall Semesters
> University of New Orleans, LA, US

CS 2450   Machine Language and Assembly, Instructor
> **2021**: Fall Semester
> University of New Orleans, LA, US

Academic Service

2023   Artifact Evaluation Committee, ACM CCS
> Artifact Evaluation Committee, USENIX Security

2024
> Artifact Evaluation Committee, USENIX Security

Mentoring Students

Graduate

2023 - 2024	**Dominik Sautter**, Saarland University, Germany, <u>Thesis Research</u>.
2024 - Present	**Mario Beluri**, Saarland University, Germany, <u>Thesis Research</u>.
2024 - Present	**Marjo Toska**, Saarland University, Germany, <u>Thesis Research</u>.
2024 - Present	**Ady Elouej**, Saarland University, Germany, <u>Thesis Research</u>.
2024 - Present	**Nilaa Maharjhan**, Saarland University, Germany, <u>Thesis Research</u>.

Undergraduate

2023 – 2024	**Laura Thineta Maulia**, Saarland University, Saarbrucken, Germany, <u>Thesis Research</u>.
2024 – Present	**Andreas Brix**, Saarland University, Saarbrucken, Germany, <u>CyberSecurity Projects</u>.

Invited Talks

2024   **University of New Mexico**
Title: Cloak and Scam: Creating Honeypots to Measure Present-Day Internet Defense Mechanisms
Inviting CS Faculty: Dr. Afsah Anwar

2024   **Tulane University**
Title: How Safe Is the Web? Analyzing the Robustness of Prevalent Social Engineering Defenses
Inviting CS Faculty: Dr. Zizhan Zheng

2023   **California State LA**
Title: Analyzing the Robustness of Prevalent Social Engineering Defense Mechanisms
Inviting CS Faculty: Dr. Raj S. Pamula

Last Updated

March 10, 2024