

Atefeh Mohseni Ejiyeh

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Education

- **University of California, Santa Barbara** Sep 2019- Jun 2022
○ *M.Sc in Computer Science, (GPA: 3.7/4)*
- **Technology Management, UC Santa Barbara** Sep 2020- Dec 2021
○ *Graduate Certificate in Management Practice*
- **University of Isfahan** Sep 2015- Feb 2018
○ *M.Sc in Information Security*
- **University of Isfahan** Sep 2011- Sep 2015
○ *B.Sc in Information Technology*

Refereed Publications

- **Atefeh Mohseni-Ejiyeh**, "Secure, Robust, and Energy-Efficient Authenticated Data Sharing in UAV-Assisted 6G Networks", arXiv: 2402.11382, 2024.
- **Atefeh Mohseni-Ejiyeh**, "Real-Time Lightweight Cloud-Based Access Control for Wearable IoT Devices: A Zero Trust Protocol." In Proceedings of the International Workshop on Security and Privacy of Sensing Systems, pp. 22-29. 2023
- **Atefeh Mohseni-Ejiyeh**, M. Ashouri, M. Mahdavi, "An Incentive-Aware Lightweight Secure Data Sharing Scheme for D2D Communication in 5G Cellular Networks", ISeCure journal, 10.1, 2018. (acceptance rate=16%)
- **Atefeh Mohseni-Ejiyeh**, M. Ashouri, M. Mahdavi, "A Lightweight and Secure Data Sharing Protocol for D2D Communication", ISCISC 14th, IEEE, 2017. (acceptance rate=16% 17/104) (**Honorable Mention**)
- **Atefeh Mohseni-Ejiyeh**, M. Ashouri, "SeVR+: Secure and privacy-aware cloud-assisted video reporting service for 5G vehicular networks", ICEE 24th, IEEE, 2017. (acceptance rate=28% 458/1620)
- **Atefeh Mohseni-Ejiyeh**, B. Shahgholi Ghahfarokhi, "A Gaming Platform for Improving Emotional Intelligence of Children under Supervision of Parents", CGCO, 2015. (**Honorable Mention**)

Professional Services

- **Technical Program Committee**
 - Conference on Applied Cryptography and Network Security (ACNS) 2024
 - IEEE International Conference on Blockchain and Cryptocurrency (ICBC) 2024
 - USENIX Security AE 2024
 - ACM International Conference on the Foundations of Software Engineering AE 2024
 - IEEE/IFIP International Conference on Dependable Systems and Networks AE 2024
 - EuroSys AE 2024
 - IEEE/ACM Workshop on the Internet of SafeThings (in conjunction with S&P) 2024
 - Mining Software Repositories Security and Privacy 2024
 - Digital Forensic Research Workshop (DFRWS EU and US) 2024
 - International Workshop on Cyber Threat Intelligence and Hunting (in conjunction with IEEE BigData '23) 2023
 - ACM International Workshop on Blockchain-enabled Networked Sensor Systems 2023
 - International Workshop on Security and Privacy of Sensing Systems (in conjunction with ACM SenSys '23) 2023
 - IEEE Conference on Communications and Network Security 2022
- **External Reviewer**
 - IEEE Transactions on Information Forensics and Security 2023
 - Computers and Security 2023
 - IEEE Transactions on Dependable and Secure Computing 2023
 - IEEE Transactions on Services Computing 2023
 - IEEE Transactions on Parallel and Distributed Systems 2023
 - ACM ASIA Conference on Computer and Communications Security (ACM ASIACCS) 2024

- IEEE Internet Computing 2023
- The APWG Symposium on Electronic Crime Research (eCrime) 2023
- The Supercomputing Journal 2018,2020-2023

Professional Experience

- **Software Engineer II** **March 2023 – Present**
Harness Inc. *Mountain View, CA*
 - Designed and implemented features for Harness SCM using Go to enhance customer experience and reliability of the product.
 - Evaluated product high availability on K8s, GCP and GKE. Wrote K8s deployment manifest files to guarantee zero down time.
- **Technical Program Manager** **Oct 2022 – March 2023**
Google- Chronicle Security *Sunnyvale, CA*
 - Drove planning and execution of Reliability programs among 10 engineering teams in 5 time zones by gathering business requirements, scoping projects, defining milestones, and metrics to measure success following Google production principles.
 - Aligned senior leadership and stakeholders around program roadmap by regular data-driven status report and active listening.
 - Unblocked product and Eng teams by improving processes (e.g, 10x faster on deprov workflow); automated manual operations.
- **Software Engineer** **Aug 2022 – Sep 2022**
Aerospike- Real Time Data Platform *Mountain View, CA*
 - Enhanced Aerospike Tools package capabilities by supporting backup and restore records with complex secondary indexes.
 - Coded and maintained tools in C++ and Python languages; utilized best practice code release and build cycles; supported automatic deployment and operations of tools in cloud and container-based environments.
- **Graduate Research Assistant** **Sept 2019 – June 2022**
University of California, Santa Barbara *Santa Barbara, CA*
 - Developed a lightweight model for reconfigurable switches to filter benign network traffic before reaching costly Intrusion Detection Systems (IDS), reducing IDS load by 70%.
 - Automated packet processing pipeline and implemented Snort for traffic analysis, reducing data pre-processing by a factor of 5.
 - Employed Natural Language Processing (BERT) to analyze logs of microservices' interactions in cloud environments (e.g., AWS). Achieved a 93% recall rate in detecting security anomalies.
 - Assisted teaching Computer Networks and Data Science; Ranked "exceptionally knowledgeable" in the students' evaluations.
- **Software Engineer Intern** **June 2021 – Sept 2021**
Oracle Corporation *Redwood City, CA*
 - Designed and developed from scratch a POC in C++ to process Exadata IO requests with a 3rd party Cloud service provider.
 - Integrated Oracle Database with AWS S3 SDK CPP and automated deployment of this plugin for horizontal scalability.
 - Managed the project including tracking progress and resolving dependencies; provided weekly status to the director of engineering.
- **Research Assistant** **Nov 2017 – Jun 2018**
Communication Systems and Information Security Research Group *University of Isfahan*
 - Investigating how the internet connects everyday objects. Explored new ways to make this technology faster and safer.
 - Specialized in making sure that IoT devices are safe from hackers and other threats. Developed safety rules for these devices
 - Delivered findings to a prominent tech company, bridging academia and industry to contribute to enhanced IoT security practices.
- **Full Stack Developer & Scrum Master** **Jan 2017 – Sept 2017**
PayamPardaz Co. *Isfahan, Iran*
 - Developed and managed end-to-end project plan in an agile team of web designers and engineers. Successfully delivered the first launch of the product in time. Applied Kanban methodology to improve team efficiency and adapt changes in startups.
 - Designed the database schema and developed the back-end of a Next Gen Firewall using Python, PostgreSQL and Django.
 - Developed the UI using JS and CSS. Deployed and tested QoS, multiWAN, and Firewall components to the main product.
- **Marketing and Intellectual Property Manager** **Sep 2014 – Oct 2016**
Faradid Co. *Isfahan, Iran*
 - Developed brand strategies including market research, analyzing consumer behavior, and devising plans to enhance brand value and awareness resulted in 6 nationwide well-known brands worth 10x million dollars (in local currency).
 - Single-handedly registered 20 trademarks in a <10% acceptance rate category, showcasing adept research and negotiation skills. Enforced trademark rights, swiftly addressing infringements. Tracked industry trends, informing strategic brand protection decisions.

Awards & Recognition

- Women Who Code and LINUX Foundation scholarship 2024

- Grand prize winner in Harnessing the Power of Generative AI, HackWeek at Harness (\$5,000) 2023
- Harold Frank Scholarship, UC Santa Barbara (\$1,000) 2022
- 3rd place award, New Venture Startup Competition, Santa Barbara (\$5,000) 2021
- ICMCP Cybersecurity in partnership with Google Scholarship (Red Team) (estimated at \$15,000) 2021
- International Blockchain developer scholarship from ConsenSys and Brainia (\$1,500) 2020
- Academic Excellence Fellowship, University of California, Santa Barbara (\$2,000) 2019
- Umass Amherst CICS Fellowship, (\$4,000) *declined* 2019
- UCR Dean's Distinguished Fellowship, (\$192,658) *declined* 2019
- USask Dean's Doctoral Scholars, (72,000 CAD), *declined* 2019
- 2nd place award (out of 1266 teams) at 8th International SharifCTF Competitions, Tehran (25 million IRR) 2018
- 3rd place award in Innovative Security Startup Competition, Iran (10 million IRR) 2018
- Granted merit-based admission to masters program in Information Security at University of Isfahan 2015

Teaching

- **University of California, Santa Barbara**
 - Introduction to Computer Networks (CMPSC 176A) Spring 2020, Winter 2022, Spring 2022
 - Introduction to Data Science 2 (CMPSC 5B) Fall 2021
- **University of Isfahan**
 - Design and Analysis of Algorithms Spring 2018
 - Advanced Network Security (Graduate Course) Spring 2017
 - Network Security (Graduate Course) Fall 2016
 - Security in Computer Systems Spring 2016
 - Information Technology Specialized English Spring 2016

Leadership

- **Team Lead** **Oct 2020 - Sept 2021**
Ultim is a Baggage Management SaaS (Startup) *Santa Barbara, CA*
 - Developed and executed plans under time and resource constraints resulted in partnering with United Airlines for a test pilot.
 - Collected and analysed user data through +15 interviews with principal members at airlines to understand their pain points; [won 3rd place](#) across +50 teams in UCSB New Venture (8 months long) Competition.
- **Founder of DirectShare** **March 2017 – Sep 2018**
Secure Offline Data Sharing Mobile App (Startup) *Isfahan, Iran*
 - Led the full product cycle of a file sharing Android app (including initial feature planning, building a business plan, and developing an MVP) in a team of designers and engineers; won 3rd place (out of 45+) in a 6-months security-focused startup competition.
 - Researched and developed 4 secure direct data sharing protocols; published [three technical papers](#) in top security conferences.

Skills

- **Certificates:** [Security Innovation Red Team](#)(6m long), [Ethereum Developer](#)(3m)
- **Security and Networking:** Snort, Wireshark, iptables, REST API development, tcpdump, Socket Programming
- **Tools and Frameworks:** Linux (Debian), Git, Docker, Kubernetes (K8s), Google Cloud Platform, AWS

Language Skills

- **English:** Fluent
 - CELPIP (Reading=11/12, Listening=12/12, Writing=11/12, Speaking=12/12) 2023
 - TOEFL 98 (Reading=26, Listening,Writing, Speaking=24) 2018
- **Persian:** Native