

EDUCATION

- 9/2021 - Present **UNIVERSITY OF CALIFORNIA, SANTA CRUZ** Santa Cruz, CA
Ph.D., Computer Science and Engineering
- Focus: Applied Cryptography
- 9/2016 - 7/2021 **SHARIF UNIVERSITY OF TECHNOLOGY** Tehran, Iran
B.S., Computer Science
- GPA: 3.7/4.0
 - Coursework: Operating Systems, Parallel Programming and Architecture, Computer Networks, Data and Network Security, Distributed Systems and Blockchains, Bioinformatics, Image Processing
 - Voluntary member of the Sharif Green Society, advocating for environmental protection
 - Voluntary organizer of seminars in the scientific chapter of the Mathematics and Computer Science department

EXPERIENCE

- 8/2020 - 12/2020 **MAX PLANCK INSTITUTE FOR INFORMATICS** Saarbrücken, Germany
Research Intern
- Collaborated with Dr. Oliver Gasser in Prof. Anja Feldmann's research group
 - Investigated the impact of changes in TLS certificate lifetime requirements enforced by user-agents
 - Designed a pipeline to collect and stay up to date with Certificate Transparency Logs' data
 - Analyzed 11B records from all available Certificate Transparency Logs
 - Accumulated 5 billion TLS certificates for further active measurements
- 7/2018 - 5/2021 **SOTOON (CAFEBAZAAR CLOUD)** Tehran, Iran
Data Infrastructure Engineer
- Built the platform to transfer, store, and analyze big data at petabyte scale for multiple user-facing apps with 84M+ active users across Android, iOS, and web
 - Researched and provided strategic recommendations for solutions architecture including Apache Druid for OLAP and Presto for SQL on Hadoop
 - Set up and/or maintained Apache {Druid, Kafka, Hadoop, Spark, Zeppelin, ZooKeeper} and M3DB clusters/services; Designed currently running probes and high-accuracy billing systems for them
 - Scaled the storage cluster from 10s of terabytes to petabytes (100x)
 - Developed Kubernetes operators to manage Apache {Kafka, Hadoop, ZooKeeper} clusters in a Platform as a Service environment
 - Created mentorship documents and mentored new team members
- 7/2017 - 9/2017 **SAHAB PARDAZ** Tehran, Iran
Data Engineering Intern
- Developed a distributed and highly available web search engine indexing millions of websites
 - Developed and maintained a document index/fetch wrapper for Elasticsearch

ADDITIONAL INFORMATION

TECHNICAL SKILLS

- **Proficient in** Docker, Kubernetes, Apache {Druid, Hadoop, Kafka, Zeppelin, ZooKeeper}, HashiCorp Nomad, GoLang, Python, GNU/Linux, Git, LaTeX
- **Experienced with** Apache Spark, Java, Scala, HashiCorp Vagrant, Prometheus, M3DB, PostgreSQL, Google {Docs, Sheets, Slides}

HONORS AND AWARDS

- Scored **99.6 percentile** in 2016 Iranian nationwide university entrance exam in Mathematics & Physics (STEM)
- Scored **99.8 percentile** in 2016 Iranian nationwide university entrance exam in Foreign Language Studies

INTERESTS

- **Research Interests include:** Applied Cryptography, Operating Systems, Architecture, Storage/File Systems, Distributed/Cloud Computing, Security
- **General Interests include:** Mountain Biking, Dancing, Mental Health Awareness, Gender Equality, Environmental Protection, Distributed and Scalable Software