

## EDUCATION

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- 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

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- 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
  - Voluntary member of Max Planck Society Mental Health Collective
- 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
- 2/2018 - 9/2019    **GOJESABZ BIG DATA**    Tehran, Iran  
*Machine Learning Engineer*
- Developed a deep learning-based Farsi image-to-text (OCR) pipeline
- 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

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### 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}

### 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