

EDUCATION

- 9/2016 - Present **SHARIF UNIVERSITY OF TECHNOLOGY** Tehran, Iran
Pursuing B.S. in Computer Science
- GPA: 3.7/4.0
 - Coursework: Computer Networks, Data and Network Security, Distributed Systems and Blockchains, Operating Systems, BioInformatics, Image Processing
 - Member of the Sharif Green Society, advocating for environmental protection
 - Organized seminars in the scientific chapter of the Mathematics and Computer Science department
- 9/2012 - 6/2016 **NATIONAL ORGANIZATION FOR DEVELOPMENT OF EXCEPTIONAL TALENTS** Tehran, Iran
Allameh Helli 5 High School
- GPA: 4.0/4.0
 - Diploma In Mathematics And Physics
 - Scored 99.6 percentile in 2016 nationwide university entrance exam in Mathematics & Physics
 - Scored 99.8 percentile in 2016 nationwide university entrance exam in Foreign Language Studies

EXPERIENCE

- 8/2020 - Present **MAX PLANCK INSTITUTE FOR INFORMATICS** Saarbrücken, Germany
Internet Measurements 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 - Present **SOTOON (CAFEBAZAR 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 79M+ 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
 - Increased team productivity and efficiency by coordinating work processes
- 2/2018 - 9/2019 **GOJESABZ BIG DATA** Tehran, Iran
Machine Learning Engineer
- Collaborated with Dr. Shahin Rouhani and a team of students from Sharif University of Technology
 - Built a deep learning-based Farsi text Object Character Recognition (OCR) pipeline
 - Developed convolutional and long short-term memory neural networks for image classification, super-resolution, and OCR
- 7/2017 - 9/2017 **SAHAB PARDAZ** Tehran, Iran
Data Engineering Intern
- Developed a distributed and highly available web search engine indexing millions of websites
 - Set up, maintained, and wrote a document index/fetch wrapper for ElasticSearch

SELECTED PROJECTS

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| Fall 2019 | Buffer Overflow, Format String, XSS, SQL Injection, and ARP Poisoning Attack Implementation <i>Data and Network Security</i> |
| Spring 2019 | DHCP, UDP Hole Punching, and BGP Implementation <i>Data Transfer and Computer Networks</i> |
| Spring 2019 | Gene Expression, Gene Ontology, and Pathway Analysis with R <i>Introductory BioInformatics</i> |
| Spring 2019 | Blockchain/Cryptocurrency Analysis Platform <i>Data Engineering</i> |
| Fall 2018 | Crowdfunding Ethereum Smart Contract <i>Foundations of Blockchain Technology and Cryptocurrencies</i> |
| Spring 2018 | Checkers AI with Minimax and AlphaBeta Pruning <i>Analysis of Algorithms</i> |
| Fall 2017 | CPU Design With Verilog and Quartus <i>Principles of Computer Systems</i> |
| Fall 2017 | TicTacToe with AI adversary in MIPS assembly <i>Principles of Computer Systems</i> |

SELECTED COURSES

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|-----------|---|
| 20.0/20.0 | Data Transfer and Computer Networks |
| 20.0/20.0 | Data Engineering |
| 19.0/20.0 | Advanced Programming |
| 18.7/20.0 | Principles of Computer Systems |
| 18.5/20.0 | Fundamentals of Computers and Programming |
| 18.0/20.0 | Data and Network Security |
| 17.8/20.0 | Database Systems |
| 17.6/20.0 | Introductory BioInformatics |
| 17.2/20.0 | Principles of Image Processing |
| 16.6/20.0 | Foundations of Blockchain Technology and Cryptocurrencies (Graduate Course) |

ADDITIONAL INFORMATION

TEST SCORES

- **TOEFL iBT** score: 115 (Reading 30, Listening 30, Speaking 28, Writing 27)
- **GRE General Test** score: Quant 169, Verbal 155, Writing 4.0

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}

LANGUAGES

- Fluent in English; Native speaker of Farsi

INTERESTS

- **Research Interests include:** Systems Engineering – [Large-Scale] Distributed Systems, Cloud Computing, Computer Networks, Operating Systems, Security
- **General Interests include:** Mountain Biking, Dancing, Mental Health Awareness, Gender Equality, Environmental Protection, Distributed and Scalable Software, Cloud-Native Software, Electronic Gadgets