

## EDUCATION

---

- 9/16 - Present      **SHARIF UNIVERSITY OF TECHNOLOGY**      Tehran, Iran  
Pursuing B.S. in Computer Science
- Coursework: Computer Networks, Data and Network Security, Distributed Systems and Blockchains, Operating Systems, BioInformatics, Image Processing (GPA: 3.3/4.0)
  - Member of the Sharif Green Society, advocating for environmental protection
  - Organized seminars in the scientific chapter of the Mathematics and Computer Science department
- 9/12 - 6/16      **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

---

- 8/20 - 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
  - Collaborated with Dr. Oliver Gasser in Prof. Anja Feldmann's research group
  - Analyzed data from all available Certificate Transparency Logs
  - Accumulated 5 billion TLS certificates
- 7/18 - Present      **SOTOON (CAFE BAZAAR 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 65M+ 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
  - Mentored junior team members to facilitate team growth and provisioning of new in-demand services
  - Coordinated intra-team work processes and increased productivity and efficiency
- 7/17 - 9/17      **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

---

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

## SELECTED COURSES

---

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, GNU/Linux, Git, GoLang, Python, LaTeX
- Experienced with Apache Spark, Java, Scala, Hashicorp Vagrant, Prometheus, M3DB, PostgreSQL

### LANGUAGES

- Fluent in English; Native speaker of Farsi

### INTERESTS

- Systems Engineering – Distributed Systems, Computer Networks, Operating Systems, Security
- Mountain Biking, Dancing, Cooking, Rock Music, Electronic Gadgets, Distributed and Scalable Software, Cloud Native Software, Computer Gaming, Gender Equality