

Education

Amirkabir University of Technology (Tehran Polytechnic), Iran B.Sc., Computer Engineering, (Rank 3 among all Iranian Universities)	GPA: 3.86 / 4	2019 - 2023
Shahid Hashemi Nejjad School (Sampad), Mashhad, Iran Diploma, Math and Physics	GPA: 19.6 / 20	2016 - 2019

Research Interests

Cloud Computing Virtualization Computer Networks & Communications

Skills

- o **Proficient in:** Golang, C, Python, Java, JavaScript, ShellScript, PHP, MySQL, Docker, Kubernetes, HelmCharts, OKD
- o **Fairly familiar with:** Dart, Latex, Rust, Ruby, C++, GraphQL, gRPC, Ansible, Terraform, Jenkins, Grafana, Firewall, DNS Server, Mail server
- o **Having experience of working with:** Git, ArgoCD, Elasticsearch, Prometheus, NginX, HA Proxy, QEMU, KVM, S3, MinIO, Ceph, NATS, Kafka, RabbitMQ, EMQX, Big data, SSH, PostgreSQL, MongoDB, Redis, Gitlab CI/CD, GitHub Actions, Laravel, Vue.js

Articles

- o B Sadeghian, A Najafizadeh, A Delkhosh, S Khorsandi, "PTaaS: Automated penetration testing", in progress
- o SA Javadi, A Najafizadeh, "[QJUMP over Golang channels](#)", published, ResearchGate
- o A Najafizadeh, A Delkhosh, "[Bufferoverflow Attack: hack computer memory](#)", published, ResearchGate

Projects

- o **B.Sc. Project:** Implementing an automated penetration testing system for cloud-based applications. (Golang, JavaScript, Shell Script, Python, Docker, Kubernetes) ([organization](#))
- o **QJUM on Golang channels:** Adding scheduling to Golang channels in order to jump their queues. (Golang) ([code](#))
- o **Pods Watcher:** Creating a k8s controller for monitoring pods resource consumption. (Golang, Kubernetes) ([code](#))
- o **WebRTC:** Creating a web-based platform for making video calls by using WebRTC. (Golang) ([code](#))
- o **AuthX:** Creating a IDaaS application for authenticating the Amirkabir students in cloud computing course. (Golang, HTML, JavaScript, Docker) ([code](#))
- o **Jetstream Mirroring:** Using benthos to mirror income traffic of NATS cluster to another cluster in different region. (Golang, Benthos, Docker) ([code](#))
- o **IMDB website clone:** Implementing a movie streaming website like IMDB. (Go, HTML, JavaScript, Python) ([code](#))
- o **Chatroom over SSH:** Creating a secure chatroom over SSH. (Python) ([code](#))
- o **HTTP Endpoints monitoring:** Implementing a Restful API to monitor users' endpoints. (Golang, Docker) ([code](#))
- o **Service Monitoring with Prometheus:** Using Prometheus to expose metrics of a remote server. (Golang) ([code](#))

Notable coursework & Technical Reports

- o A Najafizadeh, "[NATS Jetstream mirroring](#)", published, golangexample.com
- o A Najafizadeh, M Sabaei, Gh Ashofteh, "Computer Networks Lab Manual", Amirkabir University of Technology

- A Najafizadeh, SA Javadi, "Virtualization course syllabus", Amirkabir University of Technology
- A Najafizadeh, SP Alvani, "[CORS error handling in web developing](#)", Amirkabir University of Technology

TA Experience

<i>Fall 2023</i>	Internet Engineering, under supervision of Lecturer. Seyed Parham Alvani
<i>Spring 2023</i>	(Head TA) Cloud Computing, under supervision of Prof. Seyed Ahmad Javadi
<i>Spring 2023</i>	(Head TA) Computer Networks, under supervision of Prof. Babak Sadeghian
<i>Spring 2022</i>	Operating Systems, under supervision of Prof. Seyed Ahmad Javadi
<i>Spring 2022</i>	Principle of Database design, under supervision of Prof. Saeedeh Momtazi

Internships

<i>Summer 2022</i>	Software and Cloud Engineer at Snapp! company , maintainer of EMQX and NATS clusters
<i>Summer 2021</i>	Backend Developer at Sharif University of Technology , developing websites using PHP/Laravel

Honors

<i>2023</i>	In the top 10% among all 2023 Graduated Students in Computer Engineering department
<i>2022</i>	Head secretary of 12th Amirkabir Linux Festival
<i>2021 – 2022</i>	Member of the 16th term of the Scientific Association in Computer Engineering department
<i>2021</i>	Staff and Website administrator at International Collegiate Programming Contest (ICPC)
<i>2019</i>	In the top 0.05% Math & Physics students in the Nation-wide University Entry Exam

English

- TOEFL (will be taken on December 3rd 2023)

Certificates

- "Docker & Docker Swarm", [KodeKloud](#)
- "Kubernetes", [KodeKloud](#)
- "Helm Charts", [KodeKloud](#)
- "Full hands-on Docker", [Udemy](#)
- "Introduction to containers", [IBM](#)

References

○ Babak Sadeghian (Prof.)	basadegh@aut.ac.ir
○ Seyed Ahmad Javadi (Prof.)	sjavadi@aut.ac.ir
○ Saeedeh Momtazi (Prof.)	momtazi@aut.ac.ir
○ Masood Sabaie (Prof.)	sabaei@aut.ac.ir
○ Seyed Parham Alvani (Lecturer)	parham.alvani@aut.ac.ir

Certificates, documents, and other references are available upon request.

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