CONTACT
INFORMATION

Department of Computer Engineering, Amirkabir University of Tehran, 424th Hafez str, 6th Region, Tehran, Iran

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RESEARCH INTERESTS

- ♦ Virtualization
- **♦** Cloud Computing
- ♦ Operating Systems

- ♦ Computer Networks
- ♦ High speed Networks
- ♦ System communications

EDUCATION

Amirkabir University of Technology (Tehran Polytechnic), Tehran, Iran B.Sc., Computer Engineering,

(Rank 3 among all Iranian Universities)

- Grade Point Average:
 18.29 / 20 (≈ 3.86 / 4)
- Undergraduate Project Advisor: Prof. Babak Sadeghian
- Undergraduate Project: Implementing an automated penetration testing system for cloud-based applications, especially Software as a Service applications

Shahid Hashemi Nejjad School (Sampad), Mashhad, Iran

Diploma, Math and Physics

2016 - 2019

2019 - 2023

Grade Point Average: 19.60/20

PUBLICATIONS

Academic Publications

- B Sadeghian, A Najafizadeh, A Delkhosh, S Khorsandi
 "PTaaS: Automated penetration testing system", in progress, ResearchGate
- 2. SA Javadi, A Najafizadeh
 - "QJUMP over Golang channels", published, ResearchGate
- 3. A Najafizadeh, A Delkhosh
 - "Bufferoverflow Attack: hack computer memory", published, ResearchGate
- 4. A Najafizadeh
 - "NATS Jetstream mirroring", published, golangexample.com

Notable Coursework & Technical Reports

- 1. A Najafizadeh, M Sabaei, Gh Ashofteh "Computer Networks Lab Manual" lab manual for computer networks course, Amirkabir University of Technology
- 2. A Najafizadeh, SA Javadi "Virtualization course syllabus" setting the virtualization course syllabus, Amirkabir University of Technology
- A Najafizadeh, SP Alvani "CORS error handling in web developing" report and presentation of how to handle cross-origin-resource-sharing errors in web engineering, Amirkabir University of Technology

HONORS, EVENTS, and REWARDS

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

NOTABLE ACADEMIC PROJECTS

B.Sc. Project: Implementing an automated penetration testing system for cloud-based applications. (Golang, JavaScript, Shell Script, Python, Docker, Kubernetes) (*organization*)

QJUM on Golang channels: Adding scheduling feature to Golang channels in order to jump over their queues. (Golang) (code)

Pods Watcher: Creating a Kubernetes controller for controlling and monitoring pods resource consumption. (Golang, Kubernetes) (code)

WebRTC: Creating a web-based platform for making video calls by using WebRTC. (Golang) (code)

AuthX: Creating a IDaaS application for authenticating the Amirkabir students in cloud computing course. (Golang, HTML, JavaScript, Docker) (code)

Jetstream Mirroring: Using benthos to mirror income traffic of NATS cluster to another cluster in different region. (Golang, Benthos, Docker) (*code*)

IMDB website clone: Implementing a movie streaming website like IMDB. (Go, HTML, JavaScript, Python) (*code*)

Chatroom over SSH: Creating a secure chatroom over SSH. (Python) (code)

HTTP Endpoints monitoring: Implementing a Restful API to monitor users' endpoints. (Golang, Docker) (code)

Service Monitoring with Prometheus: Using Prometheus to expose metrics of a remote server. (Golang) (code)

SKILLS & EXPERTISE

Proficient in: Golang, C, Python, Java, JavaScript, Shell Script, PHP, SQL/MySQL, Docker, Kubernetes, Helm Charts

Fairly familiar with: Dart, Latex, Rust, Ruby, C++, GraphQL, gRPC

Having experience of working with: big data, SSH, PostgreSQL, MongoDB, Redis, Gitlab CI/CD, GitHub Actions, Laravel, Vue.js

Tools: Git, Ansible, Terraform, Jenkins, OpenShift, Argo CD, Elasticsearch, Prometheus, Grafana, NginX, HAProxy, Firewall, DNS server, Mail server, QEMU, KVM, S3, MinIO, Ceph, NATS, Kafka, RabbitMQ

TEACHING ASSISTANTS	 Internet Engineering Under supervision of Lecturer. Seyed Parham Alvani Designed Projects, Graded Assignments, Held TA Classes 	Fall 2023
	 Cloud Computing Under supervision of Prof. Seyed Ahmad Javadi Head Teacher Assistant 	Spring 2023
	 Computer Networks Under supervision of Prof. Babak Sadeghian Head Teacher Assistant 	Spring 2023
	 Operating Systems Under supervision of Prof. Seyed Ahmad Javadi Graded Assignments, Designed Projects, Created educational videos 	Spring 2022
	 Principle of Database design Under supervision of Prof. Saeedeh Momtazi Graded Assignments, Designed Projects, Graded Exams 	Spring 2022
SPOKEN LANGUAGES	 English Proficient TOEFL (Will take in October 7th) Persian Native Speaker 	
CERTIFICATES, AND COURSES	 + "Docker - Docker Swarm", KodeKloud + "Kubernetes", KodeKloud + "Helm Charts", KodeKloud + "Full hands-on Docker", Udemy + "Introduction to containers", IBM 	(Certificated) (Certificated) (Certificated) (Certificated) (In progress)
INTERNSHIPS	 Snapp! company Software and Cloud Engineer Learned: Golang, Microservice, NATS, OpenShift Sharif University of Technology Backend Developer Learned: PHP, Laravel, MVC, Linux, MySQL, Docker 	Summer 2022 Summer 2021
REFERENCES	Babak Sadeghian (Prof.) Seyed Ahmad Javadi (Prof.) Saeedeh Momtazi (Prof.) Masood Sabaie (Prof.) Seyed Parham Alvani (Lecturer) basadegh@aut.ac.ir sjavadi@aut.ac.ir momtazi@aut.ac.ir sabaei@aut.ac.ir parham.alvani@aut.ac.ir	