Shirin Ebadi

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EDUCATION

Bachelor of Science in Computer Engineering   Tehran, Iran
Amirkabir University of Technology   Sep. 2018–Present
- **Expected Graduation Date**: May 2023
- **Total GPA**: 18.1/20 (3.84/4.0)
- **Bachelor Project**: "Implementing Emotion Detection System Based on Serverless Edge Computing in IoT applications" (Ongoing)
- **Supervisor**: Dr. Masoud Sabaei

Diploma in Mathematics and Physics   Zanjan, Iran
Nemouneh Kosar High School   Sep. 2014–Aug. 2018
- **GPA**: 19/20 (4/4)

RESEARCH INTERESTS

• Cloud/Edge/Serverless Computing • Distributed Systems • Internet of Things • Computer Networks • Operating Systems

RESEARCH EXPERIENCE

Remote Research Intern   Monash, Australia
Monash University   Jun. 2022–Present
- Proposed an advanced context-aware Kubernetes scheduler for heterogeneous clusters in order to solve the problem of workload interference in such environments. The result will be a paper which is under preparation.
- **Supervisor**: Dr. Adel N. Toosi

Research Intern   Tehran, Iran
Amirkabir University of Technology   Jul. 2022–Present
- Studied the performance of serving machine learning models in a serverless platform at edge. (Bachelor Project)
- **Supervisor**: Dr. Masoud Sabaei

TEACHING EXPERIENCE

Teaching Assistant   Tehran, Iran
Amirkabir University of Technology   Apr. 2021 - present
- **Microprocessors and Assembly Language**
  Instructor: Dr. Hamed Farbeh
- **Internet of Things**
  Instructor: Dr. Siavash Khorsandi
- **Operating Systems**
  Instructor: Dr. Hamidreza Zarandi
- **Computer Networks**
  Instructor: Dr. Pooya Hejazi

English Teacher   Zanjan, Iran
Rah-e-roshd Institute   May. 2020 - Jul. 2020

SELECTED COURSES

- Computer Networks and Lab (20/20)
- Principles of Cloud Computing (20/20)
- Internet of Things (20/20)
- Web Programming (20/20)
- Multimedia Systems (19.4/20)
- Operating Systems and Lab (18.05/20)
- Algorithm Design (17.98/20)
- Differential Equations (20/20)
- Principles of Computational Intelligence (17.5/20)
- Robotics (18.4/20)

WORK EXPERIENCE

Software Engineer   Tehran, Iran
Snapp! (Full-time)   Oct. 2021–Jun. 2022
- The largest and fastest-growing internet company in Middle-east.
- Developed applications using Golang, gRPC, Cassandra, and Nats.
- Deployed applications on Openshift cluster and VM based on custom configuration.
- Monitored pods and services using Prometheus(Grafana) and Elasticsearch(Kibana)

Selected Projects

Smart Office, IoT Course Project: Developed central and local servers controlling the entrance of users and also the light value of their room in an office. Local server communicates with NodeMCU board using MQTT protocol.
Tools: Golang(Echo framework), MQTT, NodeMCU

VirtualBox VM Manager, Cloud Computing Course Project: An endpoint which enables users to manage their VMs and also their containers through it.
Tools: Golang

HTTP Monitor, Personal Project: Developed a service for monitoring registered URLs based on microservice architecture. After the determined number of errors, the service begins to notify the user.
Tools: Golang, NATS, SQLite

Pashmak Shop, Web Designing Course Project: Developed an online marketplace in which admin can add, remove, and edit products. Users can increase their charges and purchase the products. Both roles should register/login first.
Tools: Django, PostgreSQL, HTML, CSS

VFH Obstacle Avoidance, Robotics Course Project: Implemented a new real-time obstacle avoidance method for mobile robots, named "vector field histogram (VFH)".
Tools: Python(rospy), Gazebo

Snail Jumper, Computational Intelligence Course Project: Developed a game in which the agent decides when to jump using genetics algorithm and neural networks.
Tools: python(NumPy)

Search Engine, Information Retrieval Course Project: Developed a search engine based on tf-idf method and enhanced it.
Tools: Jupiter notebook

Skills Summary

Languages:	GO, Python, PHP, C, JavaScript, Bash, JAVA
Tools:	Kubernetes, Docker, GIT, PostgreSQL, MySQL, SQLite
Platforms:	Linux, Windows, Arduino, Raspberry

Honors and Awards

- Identified as an exceptional talent student at Amirkabir University of Technology
- Received scholarships from the Supporter Foundation of Amirkabir University of Technology
- Ranked among top 0.7% out of almost 140,000 participants in the Nationwide University Entrance Exam

Languages

Farsi: Native
English: Toefl iBT Score: 103 [Reading: 27, Listening: 25, Speaking: 26, Writing: 25]

References

Available upon request.