Navid Akbari

Curriculum Vitae

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Education

2021–Present **M.Sc. in Computer Science**, Faculty of Science, University of Calgary, Calgary, Canada
- GPA: **4/4**
- Supervisors: Dr. Mea Wang and Dr. Diwakar Krishnamurthy
- Thesis: iStream platform, a flexible container-based multimedia streaming application

2016–2020 **B.Sc. in Engineering Science**, *Department of Engineering Science*, Faculty of Engineering, University of Tehran, Tehran, Iran
- Overall GPA: **18.35/20** (**1st Rank** among all the students of the Department)

Research Interests

- Cognitive Neuroscience
- Machine Learning
- Signal Processing
- Cloud Computing

Awards and Honors

Fall 2022 **Faculty of Graduate Studies International Master's Scholarship** from Graduate Award Competition, University of Calgary - Amount: CAD 10,000

Fall 2022 **International Graduate Student Recruitment Award** from Faculty of Computer Science, University of Calgary - Amount: CAD 2,000

Winter 2022 **Departmental Research Assistant Award** from Faculty of Computer Science, University of Calgary - Amount: CAD 11,000

2019 **Received Scholarship** from the University of Tehran Sponsors Foundation as an exceptional talent student

2017 – 2019 **Received Scholarship** from Faculty of Engineering as an exceptional talent student

2017 & 2019 **F.O.E (Faculty of Engineering) Award:** Ranking 1st among all of Engineering Science students, University of Tehran

Teaching Experience

Fall 2021 - Fall 2022 Teaching Assistant, **"Explorations in Information Security and Privacy"**
Instructor: Dr. R. Henry, University of Calgary

Winter 2021 Teaching Assistant, **" Introduction to Computer Science for Computer Science Majors II"**
Instructor: Dr. J. Tam, University of Calgary

Spring 2020 Teaching Assistant, **"Internet Engineering"**
Instructor: Dr. E. Khamespanah, University of Tehran

Fall 2019 - Spring 2020 Teaching Assistant, **"Computer Networks"**
Instructor: Dr. A. Khonsari, University of Tehran

Fall 2019 - Spring 2020 Teaching Assistant, **"Operating Systems and Lab"**
Instructor: Dr. M. Kargahi, University of Tehran

Fall 2019 Teaching Assistant, **"Numerical Analysis Methods"**
Instructor: Dr. H. M. Darian, University of Tehran

Spring 2019 Teaching Assistant, **"Engineering Economics"**
Instructor: Dr. A. Kamandi, University of Tehran

Fall 2018 Teaching Assistant, **"Data Structures"**
Instructor: Dr. A. Kamandi, University of Tehran

Fall 2018 Teaching Assistant, **"Systems Analysis"**
Instructor: Dr. S. Mirzai, University of Tehran

Fall 2017 Teaching Assistant, **"Introduction to Computer and Programming"**
Instructor: A. Javan, University of Tehran

Work Experience

Sep. 2020 - Nov. 2020 **Software Enginner at Pegah Co. (known as Tapsell)**, *Tehran*, Iran
Tapsell is the leading company in the online advertising industry in Iran. I am working in the front-end chapter and helping to do some beneficial projects for all the company teams.

Summer 2019 **Internship at Parto Negar Persia Co.** , *Tehran*, Iran
Contributing to the research and development of one of the company projects. Also, I developed a web page and helped for debugging android application for the project.

Summer 2018 **Research Center**, *University of Tehran*, Tehran, Iran
Connecting the NodeMCU ESP8266 module to the flowmeter module and sending its data via the Internet and HTTP to the server and save it to the MySQL database.

Selected Academic Projects

Spring 2021 **Implementation** of five projects on different machine learning topics such as Image Classification with CNN and FCN, Auto-encoder model to denoise an image dataset, U-net model for signal denoising, RNN model to predict new daily cases of COVID-19 in Python and Jupyter Notebook
Advisor: Dr. R. Souza, Data Mining and Machine Learning

Spring 2021 **Classification** of Driving Behaviours Based on Deep Learning Algorithms like CNN and LSTM
Advisor: Dr. R. Souza, Data Mining and Machine Learning

Spring 2020 **Implementation** of seven projects on different artificial intelligence topics such as Search Algorithms, Genetic Algorithms, Classification, Multi-layer Neural Networks, and Regression. All these projects were implemented in Python and Jupyter Notebook
Advisor: Dr. H. Fadaei, Artificial Intelligence Course

Spring 2020 **Implementation** of a simple version of channel coding using Huffman algorithm and source coding using Convolutional encoding in Python
Advisor: Dr. P. Shariatpanahi, Data Transmission Course

Fall 2019 **Development** of a web application for "Meeting Management System" using Django for backend, React for frontend
Advisor: Dr. R. Khosravi, Software Engineering Course

Fall 2019 **Implementation** of GHS distributed algorithm for finding the minimum spanning tree in a graph by using the Kompics framework and Java
Advisor: Dr. F. Faghih, Distributed Systems Course

Fall 2019 **Implementation** of MapReduce distributed algorithm for counting the number of each word in the given file by using the Kompics framework and Java
Advisor: Dr. F. Faghih, Distributed Systems Course

Spring 2019 **Implementation** of a BitTorrent system with custom network topology using Mininet virtual machine and Python
Advisor: Dr. A. Khonsari, Computer Networks Course

Spring 2019 **Development** of a web application for "Occupation Finding System" using java, web languages, and MySQL for Database
Advisor: Dr. E. Khamespanah, Internet Engineering Course

Fall 2018 **Implementation** of a multithreaded neural network using pthread and semaphores in C++
Advisor: Dr. M. Kargahi, Operating Systems Course

Fall 2018 **Simulation** of solar system using n-body problem approach using Matlab
Advisor: Dr. H. Darian, Numerical Analysis Methods 1 Course

Spring 2018 **Implementation** of image noise reduction and image compression with Huffman Coding and Zig-Zag pattern using Matlab
Advisor: Dr. A. Adhami, Systems Analysis Course

Technical Skills

Programming	Python, C/C++, Java, JavaScript, MATLAB, SQL
Web/DB Technologies	HTML, CSS, Bootstrap, NodeJS, ReactJS, Angular, Docker, MySQL
Tools	Git,LaTeX, WireShark, Mininet, Kompics, Alloy, IntelliJ IDEA, Visual Studio Code, DataGrip, Postman, Simulink, MS Word, MS Excel, MS Powerpoint
Operating Systems	Mac OS, Microsoft Windows, Linux(Esp. Ubuntu, Kali)

Volunteering and Activities

2022–Present **President** of Persian Gulf Club Association in University of Calgary

2021–2022 **Vice president Internal** of Computer Science Graduate Society

2017–2019 **Member of** Student Association of Engineering Science

Fall 2017 **Member of** executive of the 3rd Engineering Science Conference

Languages Skills

Persian: Native

English: Fluent
IELTS scores: Overall 7.0 (Listening: 8.5 - Reading: 7.0 - Speaking: 6.5 - Writing: 6.0)

Arabic: Only Reading

References

Excellent references are available upon request