

Sajad Sarlaki

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Education

University of Calgary

M.Sc. in Electrical and Software Engineering

Calgary, Canada

Jan 2025: Now

- Research focus: Working with the ETHEREAL Research group to discover how augmented reality (AR) can be leveraged to support nonspeaking autistic individuals in communication.

Amirkabir University of Technology

B.Sc. in Computer Engineering (17/20 GPA)

Tehran, Iran

Sep 2017 - March 2022

Work Experience

BAYAN

Front-End Developer

Tehran, Iran

May. 2022 - 2024

- Upgraded project from outdated code to a latest version.
- Developed essential front-end applications for a mail service, encompassing mailbox and administration panel interfaces.
- Worked with various mail service modules (mail server, etc.), protocols (Pop3, SMTP, IMAP), and tools/libs (Redis, Django, React js, Redux, etc.).

UTOPIA

Co-Founder & Developer

Tehran, Iran

Aug. 2018 - Apr. 2022

- Assisted with planning, monitoring and administration of design and implementation of a agricultural platform.
- Developed mobile application using React Native.
- Developed web applications using React js.
- Trained a group of interns. (React, React hook)

Teaching Assistants

Full-Stack Development - ENSF 619

University of Calgary

Dr. A.Abdellatif

Jan 2025 - Apr 2025

- Helped the students with their problems in the Lab.
- Graded assignments.

Computational Intelligence

Amirkabir University of Technology

Dr. Ebadzadeh

Feb 2021 - Jul 2021

- Designed and graded assignments.
- Helped the students with their problems.

Signals and Systems

Amirkabir University of Technology

Dr. Rasti

Sep 2020 - Feb 2021

- Designed and graded assignments and quizzes.
- Helped the students with their problems.

Advanced Programming

Amirkabir University of Technology

Dr. Kalbasi

Feb 2019 - Jul 2019

- Defined and graded projects.
- Helped the students with their problems.

Representative Projects

Aragorn-js

Aragorn-js is a JS lib for creative coding, focusing on creating 2d educational content based on WebGL.

- Designed and Implemented as B.sc. final project.
- Written with Nodejs, Express, Webpack and animation libraries.
- Here is the [github repo](#) and [presentation](#).

VM-Managment

Virtual machine management server based on VirtualBox. Users can create, clone, edit, or remove VMs after login. They can also send files or run commands on VMs via REST API requests.

8th Semester

- Written with Nodejs, Express.
- Here is the [github repo](#) and [screenshots](#).

Computational Intelligence Projects

Some of the projects that implemented in Computational Intelligence course.

1. Steiner Tree Problem
2. EggHolder Evolution Strategy
3. Fuzzy Clustering
4. Simple-ANN

7th Semester

- Written with Nodejs, Express.
- Here is the [github repo](#) and [screenshots](#).

Data Mining Projects

Some of the projects that implemented in Data Mining course.

1. Implementation of KNN algorithm for segmentation for pixels and divide data into 7 classes s.t window, sky and etc.
2. Implementation of Decision-Tree algorithm on a dataset of cars to check overall security of the car.
3. Text-Categorization of IMDB movie reviews using Naive-Bayes.
4. Binary classification using SVM algorithm.

6th Semester

- Written with python, jupyter-notebook.
- Here is the [github repo and screenshots](#).

Mailbox

Mailbox application.

5th Semester

- Design and implemented database, fronted-end and back-end.
- Written with React js, Node js, Express, mysql.
- Here is the [github repo and screenshots](#).

Skills

Web Development

- HTML5
- CSS3
- jQuery
- React

State Management

- Redux

CSS Methodologies

- SCSS/Sass
- BEM

Other Skills

- Version Control (Git)
- Responsice Design
- Agile Methodologies (Scrum)
- Server Side Rendering - Next (Familiar)
- Node js

Programming

- Javascript (skilled)
- Python (General Knowledge)
- Java (General Knowledge)

Build Tools

- Webpack

Mobile Development

- React Native

Design Tools

- Adobe Illustrator
- Figma
- Adobe XD