

KASRA MADAYENI

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🎓 Education

University of Toronto Jun 2020

Master of Applied Science
Electrical Engineering
Thesis: Cellular-Based Localization of Mobile Devices with Structured Motion

University of Tehran Feb 2017

Bachelor of Science
Electrical Engineering
Thesis: Cloud Computing and its Application in Software Defined Networking

🛠 Skills

Technical Skills

[HTML](#) [CSS](#) [Java Script](#) [Python](#)
[SQL \(Postgresql\)](#) [NoSQL \(MongoDB\)](#)
[NodeJs](#) [C++](#) [Matlab](#)

Libraries & Frameworks

[ReactJs](#) [ExpressJs](#) [Bootstrap](#)

Soft Skills

[Communication](#) [Team Work](#) [Creativity](#)
[Time Management](#) [Problem Solving](#)

💼 Experience

Freelancing Sep 2017 - Sep 2021

- Designed and developed portfolio websites for clients and friends
- Received excellent feedback

Uni of Toronto Sep 2017 - Jan 2020

- Research Assistant
- Developed and evaluated two algorithms for localization of moving objects using Python and Machine Learning
 - Teaching Assistant
 - Assisted undergraduate students in basic and advanced computer science courses

Chegg Jan 2018 - Jan 2020

- Computer Science Tutor
- Helped and assisted more than 150 students in computer science
 - Taught C++, Java, Python, Front end web development, and Data structures
 - 100% satisfaction and positive reviews

🔗 Projects

Full Stack MERN Blog Application

[Code](#) | [Website](#)

Used: React, MongoDB, NodeJs, Express, REST API

- Implemented CRUD operations in front-end and back-end
- Developed authentication, authorization, and private routes
- Designed a completely responsive layout using React
- Managed the state of the application using Redux Toolkit

PERN E-Commerce for Music Selling

[Code](#) | [Website](#)

Used: React, PostgreSQL, ExpressJs, Styled Components

- Developed and Designed a full stack application
- Enabled shopping musics using PayPal and Stripe API
- Managed the state of the application using Redux Toolkit

Sorting Visualizer

[Code](#) | [Website](#)

Used: VanillaJs, Data Structures & Algorithms

- Implemented Quick Sort, Merge Sort, Selection Sort, Insertion Sort, Bubble Sort, and Bucket Sort
- Designed and built a responsive UI for visualizing the algorithms

Puzzle Games

[Code](#) | [Website](#)

Used: VanillaJs, OOP, SOLID principles

- Implemented several 2D puzzle games
- Applied the Clean architecture and OO paradigms

❤️ Volunteer Experience

Vice Chair of IEEE Student Branch

Sep 2015 - Sep 2016

University of Tehran

- Held weekly meetings and managed tasks for 50 members
- Scheduled classes, seminars, workshops, etc. for students
- Entitled as the **best** student branch in the country

President of Scientific Association

Sep 2015 - Sep 2017

University of Tehran - Electrical & Computer Engineering

- Consulted students in choosing their path and courses
- Scheduled weekly seminars and invited guest speakers
- Entitled as the **best** scientific association in the country

🏅 Honours & Awards

Research Fellowship for Int'l Students

Nov 2017 - Nov 2019

Edward S. Rogers Sr. ECE Fellowship

Sep 2017 - Jan 2020

Accepted in Uni of Toronto (1st in Ca - 16th Globally)

Sep 2017

Exempted from Master's University Entrance Exam

Jan 2017

Accepted in Uni of Tehran - Tuition Waved

Sep 2012

📄 Publication

IEEE Conference Paper

May 2016

Fairness Analysis of MAC Protocols in MIMO Networks using Stochastic Geometry