

# 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 Intn'l Students Nov 2017 - Nov 2019

Edward S. Rogers Sr. ECE Fellowship Sep 2017 - Jan 2020

Accepted in Uni of Toronto (1<sup>st</sup> in Ca - 16<sup>th</sup> 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