

KASRA MADAYENI

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🎓 Education

University of Toronto 2017-2020

Master's of Applied Science

Electrical Engineering

Thesis: Cellular-Based Localization of Mobile Devices with Structured Motion

University of Tehran 2012-2017

Bachelor's of Science

Electrical Engineering

Thesis: Cloud Computing and its Application in Software Defined Networking

✂ Skills

Technical Skills

HTML CSS JavaScript Python

SQL (Postgresql) NoSQL (MongoDB)

NodeJs C++ Matlab

Libraries & Frameworks

ReactJs ExpressJs Bootstrap

Soft Skills

Communication Team Work Creativity

Time Management Problem Solving

👜 Experiences

University of Toronto 2017-2020

Research Assistant

- Developed and simulated two algorithms for localization of moving objects using Python and Machine Learning

Teaching Assistant

- Assisted undergraduate students in basic and advanced computer science courses

Freelancing 2017-2021

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

Chegg 2018-2020

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

- Built Backend and Frontend from scratch
- Developed authentication, authorization, and private routes
- Designed a completely responsive layout using React/Redux

PERN Music Selling Application

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

Used: React, PostgreSQL, Express, NodeJs, MaterialUI

- 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 QuickSort, MergeSort, SelectionSort, InsertionSort, BubbleSort, and BucketSort
- Designed and built a responsive UI for visualizing the algorithms

Puzzle Games

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

Used: VanillaJs, OOP, SOLID principles

- Implemented three puzzle games
- Applied the Clean architecture and OO paradigms
- Designed AI algorithms for computer's turns

❤ Voluntary Experiences

Vice Chair of IEEE Student Branch

2015-2016

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

2015-2017

University of Tehran - Electrical & Computer Engineering

- Consulted students for 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 International Students

2017 - 2019

Edward S. Rogers Sr. ECE Fellowship

2017 - 2019

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

2017

Exempted from Master's University Entrance Exam

2017

Accepted in Uni of Tehran - Tuition Waved

2012

📄 Publication

IEEE Conference Paper

2016

Fairness Analysis of MAC Protocols in MIMO Networks using Stochastic Geometry