

# Hesam Alizadeh

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## SUMMARY OF QUALIFICATIONS

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Skilled Software Engineer delivering interactive web-based applications with a talent for creating MVPs and delivering high-quality products. Passionate about collaborating with diverse individuals and leveraging the right tools to achieve exceptional results. Strong foundation in artificial intelligence and machine learning algorithms and techniques.

## TECHNICAL SKILLS

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LANGUAGES	C#, TypeScript, JavaScript, Node.js, Python
DATABASES	Postgres, Microsoft SQL Server, MongoDB
DATA/ML	Tensorflow, NumPy, Pandas
WEB	Angular, Vue.js, React, RxJS, Node.js, REST

## EDUCATION

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2013 - 2016	M.Sc. <b>Human Computer Interaction</b> , University of Calgary, Calgary, Canada
2010 - 2013	M.Sc. <b>Machine Learning and Robotics</b> , University of Tehran, Tehran, Iran
2005 - 2010	B.Sc. <b>Software Engineering</b> , University of Tehran, Tehran, Iran

## PROFESSIONAL EXPERIENCE

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**Software Engineer II** **August 2021 - Present**  
MICROSOFT, VANCOUVER, CANADA

- Part of the team developing a first-party app for Microsoft Teams enabling users to send/receive payments in meetings and beyond.
- Contributed to improving the reliability and performance of the Teams platform.
- Technologies - .Net Core, Cosmos DB, Azure, React

**R&D Software Engineer** **April 2018 - June 2021**  
LOCAINTEL, VANCOUVER, CANADA

- Lead the development and delivery of the "Industry Advantages" product. Conducted data exploration, and built prototype dashboards in Tableau, Built a neural network regression model using TensorFlow to mitigate the missing data issues, and developed the front-end application in Angular [Product page](#)
- Executed delivery of the "Business & Investment Assistant" product. Iterative development of the MVP, and the production-ready front-end application in Angular [Product page](#)
- Engineered a hierarchical block system for building highly customizable dashboards and providing flexibility for embedding their indicators.
- Re-engineered legacy systems (code migration, data remodeling, etc), boosting maintainability and minimizing manual input for client on-boarding
- Technologies - Tableau, TensorFlow, Angular, Python, .Net Core, Postgres, MongoDB, SQL Server, HTML5/CSS3

**Full Stack Developer** **June. 2017 - March 2018**  
SMART TECHNOLOGIES, CALGARY, CANADA

- Part of the LAB team, creating single page web-based educational learning activities for K-12 students
- Collaborated with the product owner and UX designers to define/improve product features
- Prepared and presented technical documentation to internal stakeholders
- Technologies - Vue.js, Ember, Node.js, Java, HTML5/CSS3.

**Full Stack Developer** **Oct. 2016 - June. 2017**  
GUAVUS, MONTREAL, CANADA

- Part of the UI team, involved in development/maintenance of a web-based real-time monitoring system
- Contributed to migrating a large-scale AngularJS system to Angular 2. Incorporating best practices and new patterns/technologies (Typescript, Redux, D3.js) in the process
- Technologies - Angular 2, AngularJS, Spring MVC, Karma, Jasmine, Cucumber, HTML5/CSS3

**Research Intern** **March. 2016 - Aug. 2016**  
SMART TECHNOLOGIES, CALGARY, CANADA

- Collaborated with the in-house UX and development teams to prototype an interactive classroom attendance

taking tool

- Interviewed several K-12 teachers to better understand their attendance taking/warm-up routines
- Implemented a proof of concept add-on for the SMART Notebook software
- Technologies - Express.js, Javascript, HTML5/CSS3

## UX Research Assistant

Sept. 2013 - Aug. 2016

UNIVERSITY OF CALGARY, CALGARY, CANADA

- Iterative design and prototyping of a remote exercise system for seniors. Used Kinect and Vicon cameras for tracking user's body. Developed a Node.js server for transferring the data between the remote servers
- Used several HCI methodologies including User-Centered Design, Observational Experiment, Usability Evaluation, Cultural Probes, and Interviewing
- Technologies - WPF.NET, Node.js

## Research Assistant

Sept. 2010 - Aug. 2013

UNIVERSITY OF TEHRAN, TEHRAN, IRAN

- Researched and developed a learning algorithm for a simulated air hockey playing robot in Matlab and C++ enabling the robot to learn performing accurate shots by performing few sample shots
- Designed and built a real-time air hockey playing robot in collaboration with a mechanical engineer using image processing techniques for tracking the puck movement
- Technologies - C++, OpenCV, Matlab

## TEACHING EXPERIENCE

### Teaching Assistant

Sept. 2013 - Aug. 2016

UNIVERSITY OF CALGARY, CALGARY, CANADA

- **Human Computer Interaction:** Taught basics of HCI methodologies and WPF programming in Visual Studio, reviewed student projects and provided feedback throughout the design process
- **Introduction to Computer Science I & II:** Taught programming concepts including Object Oriented programming in Java and Python to the students, marked course assignments and exams, and provided students with step-by-step feedback throughout the design process

### Teaching Assistant

Fall. 2008 - Winter 2012

UNIVERSITY OF TEHRAN, TEHRAN, IRAN

- **Social Network Analysis:** Designed and graded assignments, taught social network analysis concepts and tools including Gephi
- **Artificial Intelligence:** Taught artificial intelligence concepts, held problem solving classes, and supervised student projects submitted in Java
- **Introduction to Computer Science:** Taught programming concepts in C++ to the students and marked course assignments and exams

## PUBLICATIONS

GI 2016	<b>Alizadeh, H.</b> , Witcraft, A., Tang, A., and Sharlin, E. "HappyFeet: Embodiments for Joint Remote Dancing." In Graphics Interface 2016.
CHI 2014	<b>Alizadeh, H.</b> , Tang, R., Sharlin, E., and Tang, A. "Haptics in remote collaborative exercise systems for seniors." In CHI 2014.
CHI 2014	Tang, R., <b>Alizadeh, H.</b> , Tang, A., Bateman, S., and Jorge, J. A. "Physio@Home: Design explorations to support movement guidance." In CHI 2014.
ICRoM 2013	<b>Alizadeh, H.</b> , Moradi, H., Ahmadabadi, M.N. "Automatic calibration of an air hockey robot." In Robotics and Mechatronics (ICRoM) 2013.

## VOLUNTEER ACTIVITIES

### VP Calgary Persian Library

2015

UNIVERSITY OF CALGARY, CALGARY, CANADA

- Organized several cultural events including charity events, book clubs, and poetry reading clubs
- Developed a library management system using Google Apps Script

### Student Volunteer

May 2014

ACM CHI CONFERENCE 2014, TORONTO, CANADA

- Coordinated conference sessions and similar duties