

## EDUCATION

2015 – Aug2020 **Ph.D. in Computer Science,**  
(expected) *University of Central Florida*

Research Interests:

- Human–Computer Interaction
- Computational Geometry
- Computer Vision
- Machine Learning

2010–2015 **B.Sc. in Computer Science,**  
*Sharif University of Technology: Top Rank University in Iran*

## WORK EXPERIENCE

- Jun2016–Aug2017 Full-stack Developer at Career Fair Plus  
Developed web-services using Node.js, MongoDB, Heroku, AWS, and Angular JS. Among my responsibilities, I was in charge of transforming the traditional servers to cloud services using Node.js and AWS (Lambda, S3, and EC2). I also helped with Android app development by integrating Google Firebase services for user profile management.
- Dec2012–Aug2015 Android Developer at Cafe Bazaar  
Cafe Bazaar is the largest private mobile software company in Iran. I worked on its main product, called "Bazaar", which is an Android application marketplace (similar to Google Play) for Iranian smartphone users. Currently, it has more than **36 million** active users. Some of my collaborations in this company are as follows:
- UI/UX design based on persona, scenario, and goal
  - Improving UX using user study, A/B testing and data analytics
  - Creating an Android image caching system (this happened before Fresco, UIL, Picasso, and other libraries become popular)
  - Implementing root installation for apps. Automatic update of installed apps which mimics Google Play and App Store
  - Design and implement server/client data transfer protocols and structures
  - Collaborating in implementing apk delta update (Update Android apps by their diff)
- 2013–2018 Co-founder at Ghabzak – Startup  
An Android application for paying bills.
- 2013–2017 Creator of WallpaperHaa  
An Android wallpaper application with more than 300,000 active users.
- 2010–2011 Freelance Web Developer
- Creating e-commerce websites for two incorporations
  - Creating a website for Sharif University Linux workshop

## ACADEMIC PROJECTS

- Current NSF NRI - Sketching Geometry and Physics Informed Inference for Mobile Robot Manipulation in Cluttered Scenes, *Supervisor: Dr. J.J. LaViola*
- 2017 Single view 3D model reconstruction, *Supervisor: Dr. H. Foroosh*
- GLOBECOM 2017 Investigating the Value of Privacy within the Internet of Things, *Supervisor: Dr. D. Turgut*
- 2017 A new parallel approach to Convex Hull problem, *Supervisor: Dr. D. Dechev*
- 2016 Creating Depth of Field Effect, adaptive level of detail, and selection and manipulation in VR Environment using Eye-Tracking in Oculus Rift and Kinect, *Supervisor: Dr. J. J. LaViola*
- 2016 A Fruit Ninja game using Microsoft Kinect as the input device for gesture recognition . The player can control the sword and do other body gestures to grab objects and move around , *Supervisor: Dr. J. J. LaViola*

- 2016 A Star Wars game using Microsoft Kinect as the input device for gesture recognition . The player can control the light saber and do other gestures to grab objects , *Demo*, *Supervisor*: Dr. J. J. LaViola
- 2015 Recreating MiniSAT SAT solver using Java, *Supervisor*: Dr. S. Jha
- 2014 Recreating Bertrand competition model using Vensim and NetLogo, *Supervisor*: Dr. R. Ramezani
- 2014 Studying an economic problem caused by certain laws using Vensim, *Supervisor*: Dr. A. Mashayekhi
- 2014 Creating an example of PPTP VPN (client/server) using Java , *Supervisor*: Dr. R. Ramezani
- 2013 Research involving Multimedia Datamining, *Supervisor*: Dr. M. Madani
- 2013 Creating a chatroom project for several end users with file tranfer support, *Supervisor*: Dr. R. Ramezani
- 2013 Creating a full example of an FTP server/client, *Supervisor*: Dr. R. Ramezani
- 2012 Simulating a simple ecosystem of creatures with the rules of Operating Systems *via* MATLAB, *Supervisor*: Dr. A. Zarei
- 2011 Designing a web-based game using servlet (Apache Tomcat), JS, and HTML, *Supervisor*: Dr. A. Zarei
- 2011 Building a simple P2P file transfer system in Java, *Supervisor*: Dr. A. Zarei
- 2011 Recreating a complete form of the Pac-Man game in Java including the AI for the ghosts, *Supervisor*: Dr. A. Zarei
- 2010 Creating a complete game of chess using Java, *Supervisor*: Dr. A. Zarei

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## COMPUTER SKILLS

- Programming** Java (7 years), Android (6 years), Node.js (3 years), C++ (4 years), AngularJS (3 years), JavaScript (7 years), Django (1 year), Python (4 years), C# (4 years)
- OS** Proficiency with Unix based operating systems and Windows
- Modeling** Vensim, NetLogo, AutoCAD
- Development** Agile Development, Git, Jira, Phabricator, Scrum, Squad
- Other** Unity 3D, Matlab, L<sup>A</sup>T<sub>E</sub>X, Gradle, Bootstrap, Adobe Photoshop, Adobe Illustrator

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## SELECTED COURSES

- 2017 3D Computer Vision by Dr. Hassan Foroosh
- 2017 Advanced Artificial Intelligence by Dr. Lotzi Boloni
- 2017 Multicore Programming by Dr. Damian Dechev
- 2016 Parallel Architecture and Algorithms by Dr. N. Deo
- 2016 3D User Interfaces for Games and Virtual Reality by Dr. J. J. LaViola
- 2016 Advanced Machine Learning by Dr. F. Liu
- 2015 Design & Analysis of Algorithms by Dr. S. Jha
- 2015 Network Optimization by Dr. N. Deo
- 2013 Computer Networks by Dr. R. Ramezani
- 2012 Operating Systems by Dr. A. Zarei
- 2012 Android Development by Dr. H. Malek