Ladan **Najafizadeh**

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cell: (404) 662 - 9797
Immigration status: U.S. Citizen

INTERESTS

• Machine Learning • Software Development

EDUCATION

UNIVERSITY OF MARYLAND | MS in Computer Science

December 2016 | College Park, MD

Thesis: Temporal Tracking Urban Areas Using Google Street View {skills: Computer Vision, Machine learning, HCI}
Advisor: Prof. Jon Froehlich

ISFAHAN UNIVERSITY OF TECHNOLOGY | BS in Computer Engineering

September 2011 | Isfahan, Iran

Thesis: Implementation of the IDEA (International Data Encryption Algorithm) cryptographic algorithm on FPGA {skills: Cryptography, hardware design & programming (FPGA) }

EXPERIENCE

TEMBOO INC. | Software Engineer

April 2018 – Present | New York, NY

- Machine Learning (Research & developing algorithms for anomaly detection & sensor prediction)
- Software Development (Backend/ Front-end/ Unit-tests/ QA)
- Optimization (Page load speed/ Data downsampling)

NULLOOP INC. | Software Engineer

March 2017 – April 2018 | North Bethesda, MD

- Machine Learning
- Front-end Development

UNIVERSITY OF MARYLAND | Research Assistant

January 2014 – December 2016 | Makeability Lab, HCI Lab

- Machine Learning
- Human Computer Interaction
- Computer Vision
- Hardware Design

UNIVERSITY OF MARYLAND | Teaching Assistant

September 2014 – December 2016 | Department of Computer Science

- Discrete structure | Teaching, Grading
- Intro to HCI | Grading
- Android programming | Grading
- Java programming | Teaching, Grading

NATIONAL INSTITUTES OF HEALTH (NIH) | Postbac Researcher
December 2012 – December 2013 | Bethesda, MD

- functional MRI Data Modeling & Analysis
- Data Visualization
- Server Maintenance
- Image Processing

FOULAD INSTITUTE OF TECHNOLOGY | Principal Lab Instructor
December 2011 – June 2012 | Isfahan, Iran

- Computer Architecture Lab | Developed and modified the course syllabus

ISFAHAN INFO & COMMUNICATION TECHNOLOGY INSTITUTE | Research Intern
Summer 2010 | Isfahan, Iran

- Conducted experiments on different types of BUS
- Conducted research on PCI Express to improve the performance of GPU

PAPERS & TALKS

[P] "A Feasibility Study of Using Google Street View and Computer Vision to Track the Evolution of Urban Accessibility"
Ladan Najafizadeh, Jon Froehlich| Proceedings of ASSETS Oct-2018, Galway, Ireland.

[P] "I Like This Shirt": Exploring the Translation of Social Mechanisms in the Virtual World into Physical Experiences
Ladan Najafizadeh, Seokbin Kang, Jon Froehlich| SIGCHI May-2015, Seoul, Korea.
• Paper Acceptance rate: 25%

[T1] Temporal Tracking of Features in Urban Areas using Google Street View Imagery dataset
Ladan Najafizadeh, Jon Froehlich | UMD HCIL Annual Symposium, May-2016.

[T2] Interactive Computational Tools for Accessibility
Manaswi Saha, Ladan Najafizadeh, Lee Sterns, Meethu Malu, Uran Oh | UMD Diversity in Computing Summit, Nov-2016.

AWARDS

• ACM-W Scholar, 2015
10 recipients from an international pool

• ACM programming contest winner at university level, 2007
3-round competition for national contest selection

COURSEWORK

- Machine Learning
- Computational Linguistics (NLP)
- Computational Geometry
- Computer Graphics
- Inclusive Design
- Sparsity & Advanced Optimization
- Human Factors in Security & Privacy
- Quantum Information Processing
- Scientific Computing

COURSE PROJECTS

- Designing & implementing an Email service website [React, Python, Docker].
- Increasing the accuracy of optical character recognition (OCR) using Deep learning [Python].
- EEG source localization using sparse algorithms [Matlab, brainstorm software].
- Document classification using visual representation [Python, Matlab].
- Proposing/testing a new interface design to improve the accessibility of crowdsourcing websites for people with cognitive disability [designing, prototyping, conducting user study].
- Designing/conducting user study on privacy of mobile users with visual impairments in public areas to avoid shoulder surfing [prototyping, usability testing].
- Visualization of the impact of World Wide Web [D3, JavaScript].
- Designing a database system for student records that is accessible to students/instructors [MySQL].

SKILLS

Programming
Python • C++ • JavaScript • PHP •
NodeJS • Matlab • HTML/CSS • XML

Framework / Library
React • Tensorflow • D3 • Webpack • Mobx • JQuery

Database
MySQL • MongoDB

Virtual Machine
Docker • VirtualBox

Software
Sketch • Illustrator • Photoshop

Operating System
Mac OSX • Windows • Linux

Spoken & Written
English (fluent)
Persian (native)

Hobbies
Swimming, Karate (black-belt),
Playing Piano & Santour,
Painting