

EDUCATION

- **University of California, Irvine** Irvine, CA
Ph.D. in Software Engineering; GPA: 4.00 *Oct. 2017 – Present*
- **Sharif University of Technology** Tehran, Iran
M.Sc. in Algorithms and Computation (Computer Science) *Sep. 2015 – Aug 2017*
- **University of Tehran** Tehran, Iran
B.Sc. in Computer Engineering *Sep. 2011 – Sep 2015*

EXPERIENCE

- **Microsoft Research** Seattle, WA (Remote)
Research Intern *Jun. 2021 - Present*
- **University of California Irvine** Irvine, CA
Graduate Research Assistant *Oct. 2017 - Present*
 - Incorporated deep learning models to fix inaccessible icons in mobile apps
 - Designed and created novel testing techniques to detect 3 new categories of accessibility issues in mobile apps, unknown to existing accessibility testing techniques
 - Devised a scalable and accurate static analysis technique to detect event races, 12 times faster than existing tools
- **CafeBazaar** Tehran, Iran
Software Engineer *Oct. 2015 - Aug. 2017*
 - Coordinated a number of teams (with 6 to 11 members) to create tools for Android app developers
 - * Established a developers panel based on microservice architecture (using Django, Docker, and Kubernetes)
 - * Redesigned an automated system to detect malware and low-quality apps, resulting in 4 times faster turnaround time
 - Inspected technical teams' performance issues at a company-wide level, leading to initiate a technical boot camp for entry-level developers
- **Sharif University of Technology** Tehran, Iran
Graduate Research Assistant *May. 2016 - Aug. 2017*
 - **M.Sc. Thesis:** Invented a general approximation method for solving a family of geometry optimization problems (such as clustering) in the sliding window model processing streams of big data, with constant time query and low memory overhead

PUBLICATION

- **Data-driven Accessibility Repair Revisited: On the Effectiveness of Generating Labels for Icons in Android Apps**
*To appear in **ESEC/FSE 2021**, The ACM Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering*
Forough Mehralian, Navid Salehnamadi, and Sam Malek
- **Latte: Use-Case and Assistive-Service Driven Automated Accessibility Testing Framework for Android**
*Published in **CHI 2021**, Conference on Human Factors in Computing Systems*
Navid Salehnamadi, Abdulaziz Alshayban, Jun-Wei Lin, Iftekhhar Ahmed, Stacy Branham, and Sam Malek
- **ER Catcher: A Static Analysis Framework for Accurate and Scalable Event-Race Detection in Android**
*Published in **ASE 2020**, 35th International Conference on Automated Software Engineering (23% acceptance rate)*
Navid Salehnamadi, Abdulaziz Alshayban, Iftekhhar Ahmed, and Sam Malek
- **Test Automation in Open-Source Android Apps: A Large-Scale Empirical Study**
*Published in **ASE 2020**, 35th International Conference on Automated Software Engineering (23% acceptance rate)*
Jun-Wei Lin, Navid Salehnamadi, and Sam Malek
- **A Benchmark for Event-Race Analysis in Android Apps (Poster)**
*Published in **MobiSys 2020**, 18th International Conference on Mobile Systems, Applications, and Services*
Navid Salehnamadi, Abdulaziz Alshayban, Iftekhhar Ahmed, and Sam Malek

SKILLS

- **Programming Languages:** *Java, Python*, C++, SQL, Bash, Ruby
- **Technologies and Frameworks:** *Android, Pytorch, Soot*, Django, Keras, Docker, Rails
- **Software Engineering:** *Agile (Scrum), Program Analysis*, Object-Oriented Design, Design Patterns
- **Notable Passed Courses:** Deep Generative Models, Machine Learning, Programming Deep Neural Network, Software Testing, Big Data Algorithms, Randomized Algorithms, Social Network Analysis

AWARDS

- **The Sigma Xi Grants-in-Aid of Research** 2021
- **Summer Inclusive Excellence Grant** - University of California, Irvine 2021
- **Noyce Fellow** - University of California 2021
- **Chair's Award** - UCI, School of Informatics and Computer Science 2017
- **ACM Student Chapter Excellence Award** - Outstanding School Service 2015
- **Golden Medal** in Iran Nationwide Scientific Olympiad - Computer Science 2014
- **ACM International Collegiate Programming Contest Top 10 Teams** of west Asia region 2013
- **Silver Medal** in Iran National Olympiad in Informatics 2010
The final step to world-final International Olympiad in Informatics

NOTABLE PROJECTS

- **Soot Tutorial** A series of Java code examples with visualization to learn static program analysis using **Soot**
- **IOI Translation** Developed a translation framework, used in the International Olympiads in Informatics, 2017-2020
- **VAHED** Designed and implemented a web app by **Rails** to assist students on planning for upcoming semesters, 1K users
- **DM Contest** Designed and built an online contest platform to apply active learning techniques for mathematic courses

PEER-REVIEW SERVICE

- ACM Transactions on Software Engineering and Methodology (TOSEM) 2021
- IEEE International Conference on Software Architecture (ICSA) 2021
- Grace Hopper, Software Engineering Review Committee 2020-2021
- European Conference on Software Architecture (ECSA) 2019-2020

LEADERSHIP EXPERIENCE AND COMMUNITY INVOLVEMENT

- Coordinator, **Student Journal Club on Software Engineering and Machine Learning** at UCI 2020-2021
- Live! Virtualization Team Member, **International Conference on Software Engineering** 2020
- Technical Organizer, **International Olympiad in Informatics** 2017
- Chief editor, **F1** the scientific journal of the ACM student chapter of University of Terhan 2015
- Vice-chair, **the ACM student chapter of University of Terhan** 2014-2015
- Team Leader, **Robocup Rescue Simulation**, Allame Helli high school, Tehran 2011-2012