

# ARMAN SHAHBAZIAN

SOFTWARE ENGINEER

## Address

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## EDUCATION

### Doctor of Philosophy in Computer Science

University of Southern California, Los Angeles, USA  
Advisor: Prof. Nenad Medvidovic

- Developed novel approaches for increasing the reliability of event-based software systems, detecting security vulnerabilities in Android devices, and optimizing software design models.
- Received, and participated in 2 awards up to \$1M, from National Science Foundation.
- Published 7 technical research papers in the most prominent journals and conferences in the field of software engineering.

### Master of Science in Computer Science

University of Southern California, Los Angeles, USA  
2015

### Bachelor of Science in Computer Engineering

Sharif University of Technology, Tehran, Iran  
2013



## WORK EXPERIENCE

### Google

Software Engineering Intern, 2017

Led the efforts on end-to-end integration of the mobile ads quality framework into the overarching ads platform getting used by multiple teams at Google. As a part of my project, I designed and implemented a new web dashboard, an Android application, backend services, and databases.

### Google

Software Engineering Intern, 2016

Focused on improving the quality of Google's mobile advertisements. The project spanned across several stacks including Android development, backend services, and web APIs. It was selected as the distinguished intern project, and I presented it to the VP of ads.

### USC Distance Education Network (DEN)

Software Engineer, 2014

Worked in a team comprising artificial intelligence researchers and software engineers tasked with developing a real-time question and answer system for USC DEN.

### Peyke Bartar

Web Designer & Developer, 2012-2013

Designed and developed Bartarinha.com, the first and most popular online business directory in Iran with more than **200'000 views** a day. Led the efforts in developing its Android and iOS applications with over 100'000 installations.

### Tehran's Department of Road and Transportation (TDRT)

Software Analyst & Lead Developer, 2011

Designed and developed TDRT's first online registration system.



## TECHNICAL COMPETENCIES

Languages	Java, C#, Javascript, C++, Python, SQL
Databases	Spanner, BigTable, MS SQL, MySQL
Frameworks	ASP.net MVC, gRPC, Sandman, GWT
Platforms	Android, Firebase, Google Cloud API
Dev Environments	Intellij, Visual Studio, Android Studio
Operating Systems	Windows, Ubuntu, Mac
Mobile Platforms	Android, iOS



## SELECT PUBLICATIONS

### An Empirical Study of Architectural Change in Open-Source Software Systems

In 12th IEEE Working Conference on Mining Software Repositories (MSR 2015).

### Detecting Event Anomalies in Event-Based Systems

In 10th Joint Meeting of the European Software Engineering Conference and the Foundations of Software Engineering (ESEC/FSE 2015).

### Automated Extraction of Rich Software Models from Limited System Information

In 13th Working IEEE/IFIP Conference on Software Architecture (WICSA 2016).

### A SEALANT for inter-app security holes in android

In 39th International Conference on Software Engineering (ICSE 2017).



## HONORS AND AWARDS

Academic Professional Development (APD) Fellowship  
USC, 2014

Accepted to PhD Program at USC on Full Scholarship  
USC, 2013

Ranked 1st Based on Cumulative GPA  
Sharif University of Technology, 2013

Gifted Student Award  
Sharif University of Technology, 2012

Top 0.05% in the National University Entrance Exam  
Entrance exam, among 500,000 participants, Iran, 2009



## PROFESSIONAL AND UNIVERSITY SERVICE

USC Iranian Graduate Student Association, **President**  
Raised over **\$25K** to organize cultural and social events.

USC Computer Science PhD Committee, **Board Member**  
Raised **\$10K** annually for academic and social events.

Independent Expert Reviewer  
For prestigious global publishers (IEEE, ACM, and others).



## PERSONAL

Languages	Fluent English, Native Persian, Basic Arabic
Mentorship	Sciences for underprivileged students