





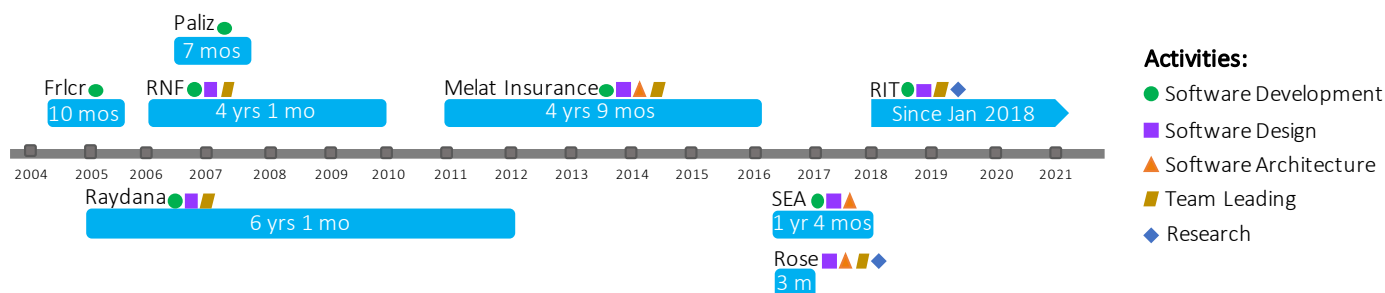
# Ali Shokri - One Page Resume

PhD Student and Graduate Research Assistant  
Department of Software Engineering  
Rochester Institute of Technology, NY, USA

 <http://a-shokri.github.io>  
 <http://linkedin.com/in/a-shokri>  
 [as8308@rit.edu](mailto:as8308@rit.edu)  
 Rochester, NY, USA

As a software engineer with 14 years of experience working in software industry, I'm currently conducting research in my PhD studies at the department of Software Engineering at Rochester Institute of Technology (RIT), NY, USA, on leveraging program analysis, program synthesis, API recommendation, and other techniques to automatically generate a program that is semantically correct while it follows a correct syntax.

## Work Experience Overview



## Skills

- **Software Development**
  - Languages/Frameworks: **Java, J2EE, Hibernate**, Matlab, JSF, Primefaces, JSP, C, C++, Delphi, CBuilder, Python, PHP, ASP, C#, .Net Framework, GWT, Spring, Struts
  - IDEs: **IntelliJ IDEA, Eclipse**, Visual Studio
  - Databases: MySQL, SQL Server, Oracle, Access
  - Servers: Weblogic, Tomcat, JBoss, Glassfish
- **Software Design**
  - Design Paradigms: **Object Oriented**, Data Driven, Procedural
  - Architectural Tactics/Patterns: **SOA**, Broker, Heartbeat, Micro-service
  - Design Tools: Rational Rose, Power Designer, Luci Charts
- **Team Management**
  - Scale: **5 members**, 10 members, 15 members and above
  - Member's Expertise: **Software developers**, **Software designer**, graphists, System analysts
- **Research**
  - Conducting a research: **Identifying problems**, **Critical literature review**, **Finding solutions**, Publishing results
  - Contribution: **Giving lectures and presentations**, **Paper review**, Teaching

## Education

- **Ph.D. Computer Science** (2018-Present)  
Rochester Institute of Technology, NY, USA
  - Topic: Program Synthesis
- **M.Sc. Information Technology** (2011-2014)  
Tarbiat Moderes University, Tehran, IR
  - Topic: Modular robot's path planning
- **B.Sc. Software Engineering** (2001-2007)  
University of Tehran, Tehran, IR
  - Topic: Software Engineering

## Awards

- **Data61** (2018)  
A world Leader in Data Science Research
  - Prestigious Research Scholarship
- **University of Melbourne** (2018)  
Ranked 30<sup>th</sup> Worldwide
  - PhD admission and Fellowship
- **Monash University** (2017)  
Ranked 70<sup>th</sup> Worldwide
  - PhD admission

## Languages

- English: Working Proficiency
- Persian: Native
- Arabic: Elementary

\* You may find more details in the following pages.

# Ali Shokri - Detailed Resume



<http://a-shokri.github.io>



<https://www.linkedin.com/in/a-shokri/>



[as8308@rit.edu](mailto:as8308@rit.edu)



Rochester, NY, USA



## About Me

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I am a PhD student and a Graduate Research Assistant at the department of Software Engineering at Rochester Institute of Technology (RIT), Rochester, NY, US.

Being advised by [Dr. Mirakhorli](#), my main research interest is to help programmers develop sound and complete programs. In that regard, in a collaboration with other researchers, we aim to leverage Program Analysis, API recommendation, Program Synthesis, Formal Methods, and other techniques to automatically generate a program that is syntactically and semantically correct. I have a M.Sc. in Information Technology from Tarbiat Modares University (Iran) and a B.Sc. in Software Engineering from University of Tehran (Iran).



## Education

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- **Ph.D., Computer Science** (2018-Expected 2023)  
Rochester Institute of Technology (RIT), NY, USA
  - Topic: Program Synthesis
  - Advisor: [Dr. Mehdi Mirakhorli](#)
- **M.Sc., Information Technology Engineering** (2014)  
Tarbiat Modares University (TMU), Tehran, Iran
  - Topic: Path Planning in Modular Robots
  - Advisor: [Dr. Ellips Masehian](#)
- **B.Sc., Software Engineering** (2007)  
University of Tehran (UT), Tehran, Iran
  - Topic: Software Engineering
  - Advisor: Dr. Khansari



## Publication

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- **Conference Papers**
  - Santos JC, Shokri A, Mirakhorli M. Towards Automated Evidence Generation for Rapid and Continuous Software Certification. In 2020 10th IEEE International Workshop on Software Certification.
  - Shokri, A. and Masehian, E., 2015, October. A meta-module approach for cluster flow locomotion of modular robots. In *2015 3rd RSI International Conference on Robotics and Mechatronics (ICROM)* (pp. 425-431). IEEE.

- Shokri, A. Hashemi, S., Akbaripour, H., Amin-naseri, M., 2013, Overcrowding Detection and Management in Emergency Department using Expert System. In 11th Iranian Conference on Intelligent Systems (ICIS2013).
- Kazemi Tabar, J. Shokri, A., Jenadeleg, M., Optimized Job Shop scheduling as Constraint Satisfaction Problem using Genetic Algorithms. In 2007 12th Conference of Computer Society of Iran (CSICC 2007).
- Journal Papers
  - Hashemi, S., Shokri, A., Amin Naseri, M. and Akbaripour, H., 2014. Designing an expert system for management of crowding and overcrowding in emergency departments. *Advances in Industrial Engineering*, 48(2), pp.281-292.

## Work Experience

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- Graduate Research Assistant - Software Design and Productivity Lab (SDPL) (Jan 2018 - Present)
  - Location: Rochester, NY, USA
  - Projects Involved in: Software Synthesis, Software Certification, Security Tactics
  - Responsibilities: Research, Writing Paper, Presentation, Software Development, Software Design

Journals & Conferences
Overleaf
IntelliJ IDEA
Java
Power Designer
Linux
- Senior Software Engineer - Samen Ertebat Asr (SEA) (Oct 2016 – Jan 2018)
  - Location: Tehran, Iran
  - Projects Involved in: Banking System
  - Responsibilities: Software Architecture, Software Design, Software Development

Java
GWT
IntelliJ IDEA
Oracle
Power Designer
- Senior Software Engineer - Rose System (IIN Groups) (Aug 2016 – Oct 2016)
  - Location: Tehran, Iran
  - Projects Involved in: Scientific Content Provider
  - Responsibilities: Software Architecture, Software Design, Leading a Team

Java
IntelliJ IDEA
Power Designer
SOA
Broker
- Senior Software Engineer - Melat Insurance (Dec 2011 – Aug 2016)
  - Location: Tehran, Iran
  - Projects Involved in: Insurance System, Banking System, Global Distribution System (GDS)
  - Responsibilities: Leading a Team, Project Management, Software Architecture, Software Design, Software Development

Java
J2EE
MyEclipse
SQL Server
Oracle
Weblogic
Hibernate
JSF
Primefaces

Rational Rose
Power Designer
SOA
- Software Engineer - Raydana (Sep 2005 – Feb 2012)
  - Location: Tehran, Iran
  - Projects Involved in: Enterprise Resource Planning (ERP) System

- Responsibilities: Leading a Team, Project Management, Software Design, Software Development

Java J2EE MyEclipse MySQL SQL Server Tomcat Struts JSP Hibernate Rational Rose  
Power Designer

– Software Engineer - Paliz CT (Dec 2006 – Jun 2007)

- Location: Tehran, Iran
- Projects Involved in: Tehran Municipality System
- Responsibilities: Requirement Analysis, Software Design, Software Development

.Net framework C# Visual Studio Ajax tools SQL Server

– Co-Founder & Lead Developer - Rayan Narm Fan (Nov 2006 – Nov 2010)

- Location: Tehran, Iran
- Projects Involved in: Qeshm Entrance-Exit Control System
- Responsibilities: CEO, Leading a Team, Software Design, Software Development

Java J2EE MyEclipse MySQL Liferay

– Freelance Software Developer (Dec 2004 – Sep 2005)

- Location: Tehran, Iran
- Projects Involved in: Software Development
- Responsibilities: Software Development, Website Development

Delphi CBuilder Asp Access



## Contributions to SE Community

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- Paper Reviewing - Conferences/Journals
  - Reviewer for the Journal of Systems and Software (JSS)
  - Reviewer for the e-Informatica Software Engineering Journal (EISEJ)
  - Sub-reviewer at 42nd International Conference on Software Engineering (ICSE 2020)
- Teaching - Academic/Industrial
  - An Introduction to Program Synthesis (Video)
  - Design Patterns (Melat Insurance Co.)
  - Java Programming (Raydana Co.)



## Proud of

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- Data61 Research Scholarship (2018)
  - Recipient of a prestigious scholarship for conducting my research at Data61, a world leader in data science research and engineering.
- University of Melbourne (2018)
  - Admitted as a fully funded PhD student at the University of Melbourne (worldwide ranked 30th) with a prestigious fellowship.
- RIT (2018)

- Admitted to Rochester Institute of Technology, New York for Spring 2018 as a fully funded PhD student.
- Monash University (2017)
  - Admitted as a PhD student at Monash University (worldwide ranked 70th) as a PhD student.
- Tarbiat Modares University (2011)
  - Top 5% among participants in Tarbiat Modares University entrance exam (M.Sc.).
- Iran Nation-wide University Exam (2001)
  - Top 0.1% among participants in 2001 Iran nation-wide university entrance exam (B.Sc.).



## Languages

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- Persian
  - Native
- English
  - Working Proficiency
- Arabic
  - Elementary