

# Mohammad Hossein Rimaz

Tavanir St., Vali-Asr St.  
Tehran, Tehran 1434885481, Iran

Email: [mhrimaz@acm.org](mailto:mhrimaz@acm.org)  
Phone: +98 933 888 0256  
Nationality: Iranian  
Date of Birth: 18/01/1996  
Homepage: <http://mhrimaz.com>  
GitHub: <https://github.com/mhrimaz>

## Education

2014–2019(expected) BSc, Software Engineering, K. N. Toosi University of Technology,  
Major GPA: 15.79/20 (top 15% in the class)  
Selected Courses: Java, Software Testing, Software Engineering. (all grades 20/20)  
Advisor: Babak Nasersharif

## Fields of Interests

Big Data and Scalable Computation  
Recommender Systems  
Machine Learning  
Evolutionary Computation and Genetic Algorithms

## Technical Skills

Programming Proficient in Java SE, JavaFX. Familiar with C++, Scala, Python.  
Expert in Object Oriented Programming and Familiar with Design Patterns.  
Some experience with Spark java web framework, Play framework.  
Familiar with Teplate Engines lik FreeMarker and Apache Velocity.  
Expert in Object Oriented Programming and Familiar with Design Patterns.  
Proficient in Concurrency and parallelism concepts like Akka Actor Model,  
Java Fork/Join and Completable Futures.  
Experienced in Git and GitHub.

Software Adobe InDesign, Adobe Illustrator, Microsoft Office, LATEX.

IDEs Proficient in IntelliJ IDEA and Apache NetBeans. Familiar with Eclipse

Database Familiar with Database Management Systems and NoSQL concepts.  
Some experience with Oracle 12c, MongoDB and SQLite.  
Familiar with ORMs and some experience with Hibernate and JPA.

## Honors and Awards

April 2018 **3rd place** in IranOpen UAV - Indoor League,  
RoboCup Iran Open 2018 International Competitions, Team KN2C.

## Teaching Experience

|             |   |
|-------------|---|
| Spring 2018 | Teaching assistant for <b>Advanced Programming with Java</b> , K.N. Toosi University of Technology<br>Instructor: Mehdi Esnaashari    |
| Spring 2018 | Teaching assistant for <b>Advanced Programming with Java</b> , K.N. Toosi University of Technology<br>Instructor: Mahdi Zamanian      |
| Spring 2017 | Teaching assistant for <b>Advanced Programming with Java</b> , K.N. Toosi University of Technology<br>Instructor: Mahdi Zamanian      |
| Spring 2017 | Teaching assistant for <b>Advanced Programming with Java</b> , K.N. Toosi University of Technology<br>Instructor: Mehdi Esnaashari    |
| Spring 2017 | Teaching assistant for <b>Algorithms</b> , K.N. Toosi University of Technology<br>Instructor: Amin Nikanjam                           |
| Fall 2016   | Teaching assistant for <b>Data Structure</b> , K.N. Toosi University of Technology<br>Instructor: Babak Nasersharif                   |
| Spring 2015 | Teaching assistant for <b>Advanced Programming with Java</b> , K.N. Toosi University of Technology<br>Instructor: Mahdi Zamanian      |
| Fall 2015   | Teaching assistant for <b>Advanced Programming with Java</b> , K.N. Toosi University of Technology<br>Instructor: Sayyed Kamyar Izadi |

## Projects

|                      |   |
|----------------------|---|
| Summer 2017          | <b>Autonomous landing on Artificial Landmark</b><br>Role: Developer in KN2C Robotic Lab: Aerial Unmanned Vehicle Team<br>Design an artificial landmark and develop a real-time vision based autonomous landing algorithm in both outdoor and indoor using OpenCV and C++.   |
| January – April 2017 | <b>Cloud Billing System</b><br>Role: Researcher, Developer   Supervisors: Ali Ahmadi and Saeed Sedighian Kashi.<br>Enterprise level project with collaboration of Sharif University of Technology, Alzahra University and K.N. Toosi University of Technology.<br>Investigated open source billing systems like Cyclops and CloudKitty.<br>Worked with OpenStack and OpenShift and studied metrics acquisition from them.<br>Examined Time Series Databases like InfluxDB, KairosDB and OpenTSDB. |
| Summer 2016          | <b>ODE MathTools and PDE MathTools</b><br>Role: Developer, Web Site Designer   Supervisor: Hadi Aliakbarian<br>Several mathematical visualizations, which implemented in JavaFX.<br>These project uses as a resource for students of the “Differential Equation” and “Advanced Engineering Mathematics” course in K. N. Toosi University of Technology.   |

## Professional Membership

Association for Computing Machinery (2017-present). Membership Number: 7348433

## Certificates

| <b>Coursera</b> | <b>Verified certificates from Coursera online MOOC platform.</b>                            |
|-----------------|---|
| July 2018       | Parallel, Concurrent, and Distributed Programming in Java Specialization   Rice University. |
| March 2017      | Intro to RecSys: Nearest Neighbor Collaborative Filtering   University of Minnesota .       |
| December 2016   | Intro to RecSys: Non-Personalized and Content-Based   University of Minnesota.              |
| December 2016   | Big Data Integration and Processing   University of California, San Diego.                  |
| November 2016   | Functional Program Design in Scala   École Polytechnique Fédérale de Lausanne.              |
| October 2016    | Big Data Modeling and Management Systems   University of California, San Diego.             |
| September 2016  | Machine Learning   Stanford University.   |
| August 2016     | Algorithms on Strings   University of California, San Diego.                                |
| August 2016     | Introduction to Big Data   University of California, San Diego.                             |
| July 2016       | Functional Programming Principles in Scala   École Polytechnique Fédérale de Lausanne.      |
| July 2016       | Algorithms on Graphs   University of California, San Diego.                                 |
| July 2016       | Hadoop Platform and Application Framework   University of California, San Diego.            |
| July 2016       | Data Structures   University of California, San Diego.                                      |
| May 2016        | Mastering the Software Engineering Interview   University of California, San Diego.         |
| April 2016      | Algorithmic Toolbox   University of California, San Diego.                                  |
| March 2016      | Advanced Data Structures in Java   University of California, San Diego.                     |
| November 2015   | Object Oriented Programming in Java   University of California, San Diego.                  |

## Community Outreach

|                    |   |
|--------------------|---|
| May 2018-present   | Chairman of ACM Student chapter<br>K. N. Toosi University of Technology. Chapter Website: <a href="https://kntu.acm.org">https://kntu.acm.org</a> |
| November 2016-2017 | Chairman of Student's scientific chapter<br>K. N. Toosi University of Technology.   |