

# Mohammad Hossein Rimaz

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Nationality: Iranian  
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## Education

2014–2019 (expected) BSc, Software Engineering, K. N. Toosi University of Technology,  
Major GPA: 16.37/20 (3.3/4), Cumulative GPA: 15.79/20 (3.2/4) (top 15% in the class)  
**Selected Courses:** Java, Software Testing, Software Engineering. (all grades 20/20)  
Algorithm Design (18.5/20), Artificial Intelligence & Expert Systems (19.3/20)

## Fields of Interests

Machine Learning, Information Retrieval, Recommender Systems, Data Mining

## Honors and Awards

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

## Projects

Fall 2018 (*Ongoing*) **Hybrid Movie Recommender Systems based on Low-Level Stylistic Features**  
Role: Researcher  
Working with MovieLens and Mise-en-scène dataset.  
Exploring and visualizing various aspect of dataset and  
investigation different techniques for recommendation. Languages: Python, Scikit.

Summer 2017 **Autonomous landing on Artificial Landmark**  
Role: Developer in KN2C Robotic Lab, Aerial Unmanned Vehicle Team  
Designing artificial landmarks and developing real-time vision-based autonomous  
landing algorithm (outdoor and indoor environments). Languages: OpenCV and C++.

Jan – April 2017 **Cloud Billing System**  
Role: Researcher, Developer | Supervisors: A. Ahmadi and S. Kashi.  
Investigating open-source billing systems. Examining time series databases.

Summer 2016 **ODE and PDE MathTools**  
Role: Developer, Web Site Designer | Supervisor: H. Aliakbarian  
Several mathematical visualizations in JavaFX.

## Technical Skills

Languages	Java, C++, Scala, Python.
Programming	Object Oriented and Functional Programming, OOP Design Patterns.
Concepts	Concurrency and Parallelism such as Java Fork/Join, Akka Actor Model, Async programming, Version Control Systems such as Git and GitHub, Web services such as REST and SOAP.
IDEs	IntelliJ IDEA, Apache NetBeans, Eclipse.
Databases	Oracle 12c, MongoDB, SQLite.
Libraries	Akka, Git, Hibernate, JPA, JUnit, Mockito, JavaFX, Maven, JDBC, scikit, numpy.

## Teaching Experience

Fall 2015–Spring 2018	Teaching assistant, <b>Advanced Programming with Java</b> , KNTU, Instructors: Mehdi Esnaashari, Mahdi Zamanian, Sayyed Kamyar Izadi
Spring 2017	Teaching assistant for <b>Algorithms</b> , KNTU, Instructor: Amin Nikanjam
Fall 2016	Teaching assistant for <b>Data Structure</b> , KNTU, Instructor: Babak Nasersharif

## Community Outreach

May 2018–present	Chairman of ACM Student Chapter, KNTU. Chapter Website: <a href="https://kntu.acm.org">https://kntu.acm.org</a>
Sep 2017–present	Founder and leader of KNTU Java User Group (JUG). KNTU JUG YouTube Channel
November 2016–2017	Chairman of Computer Engineering Student’s Scientific Chapter, KNTU.

## Professional Membership

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

## Certificates

Coursera	Verified certificates from Coursera online MOOC platform.
July 2018	Parallel, Concurrent, and Distributed Programming in Java Specialization   Rice University.
September 2017	Intro to RecSys: Matrix Factorization and Advanced Techniques   University of Minnesota.
August 2017	Intro to RecSys: Evaluation and Metrics   University of Minnesota.
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.
November 2016	Functional Program Design in Scala   École Polytechnique Fédérale de Lausanne.
September 2016	Machine Learning   Stanford University.
August 2016	Algorithms on Strings   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.
March 2016	Advanced Data Structures in Java   University of California, San Diego.

## Hobbies

Play the Piano, Classical Music, Basketball, Reading Non-Fiction Books