

MOHAMMAD HOSSEIN RIMAZ

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Education

2014-2019 (Expected) Bachelor of Science (B.S.) in Computer Software Engineering
K.N. Toosi University of Technology, Tehran, Iran.

Research Interest

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

Skills

Programming Skills:

- 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, and FreeMarker template engine.
- Proficient in Concurrency and parallelism concepts like Akka Actor Model, Java Fork/Join and Completable Futures.
- Familiar with Hadoop MapReduce, Apache Spark and some other Big Data tools and concepts.
- Some Experience in Image Processing using OpenCV.
- Familiar with Hibernate.
- Familiar with Database Management Systems and NoSQL concepts. Some Experience with Oracle12c, MongoDB and SQLite.

IDEs: NetBeans, IntelliJ IDEA, Eclipse

Operating Systems: Linux, Windows

Teaching Experience

Fall 2016 **Advanced Programming in Java** Teaching Assistant, K.N. Toosi University of Technology (Three Semester)
Spring 2017 Instructor: [Mehdi Esnaashari](#)
Spring 2018

Spring 2015 **Advanced Programming in Java** Teaching Assistant, K.N. Toosi University of Technology (Three Semester)
Spring 2017 Instructor: [Mahdi Zamanian](#)
Spring 2018

Summer 2017 **Programming in Java** Instructor, Salam Iranzamin High school
• Introductory course on Java Programming for high school level students.

Spring 2017 **Algorithms** Teaching Assistant, K.N. Toosi University of Technology
Instructor: [Amin Nikanjam](#)

Fall 2016 **Data Structure** Teaching Assistant, K.N. Toosi University of Technology
Instructor: [Babak NaserSharif](#)

Fall 2015 **Advanced Programming in Java** Teaching Assistant, K.N. Toosi University of Technology
Instructor: [Sayyed Kamyar Izadi](#)

Projects

- Summer 2017 **Autonomous landing on artificial landmark:**
Role: **Developer** in **KN2C Robotic Lab: Aerial Unmanned Vehicle Team**
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 **Cloud Billing System:**
Role: **Researcher, Developer** | Supervisors: **Ph.D. [Ali Ahmadi](#)** and **Ph.D. [Saeed Sedighian Kashi](#)**
Enterprise level project with collaboration of **Sharif University of Technology, Alzahra University** and **K.N. Toosi University of Technology**.
Investigated open source billing systems like Cyclops and CloudKitty. Worked with OpenStack and OpenShift and studied metrics acquisition from them. Examined Time Series Databases like InfluxDB, KairosDB and OpenTSDB.
- Summer 2016 **ODE MathTools & PDE MathTools:**
Role: **Developer, Web Site Designer** | Supervisor: **Ph.D. [Hadi Aliakbarian](#)**
Several mathematical visualizations, which implemented in JavaFX. These project uses as a resource for students of the “Differential Equation” and “Advanced Engineering Mathematics” course in K.N. Toosi University of Technology.

Volunteer Experiences

- May 2018 – May 2019 **K. N. Toosi University of Technology ACM Student Chapter**
Role: **Chapter Chair** | Chapter Website: <https://kntu.acm.org>
As an ACM Student Member, I decided to start an ACM Student Chapter in my university. I have been responsible for organizing event, filling annual report for ACM Headquarter and communicate with companies and faculty staff to pursue the chapter goals.
- November 2016 – March 2019 **K. N. Toosi University of Technology Student’s Scientific Chapter**
Role: **Editor-in-Chief of “Asre Rayaneh” Magazine** | Available online: <https://kntu-ce-mag.github.io/>
I have been responsible for publishing three issue of this student’s magazine. We worked with university’s staff and motivated student to publish article about both technical and non-technical aspect of our field of study.
- Since June 2017 **ACM Student Member**
Membership Number: 7348433

Certificates

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| July 2018 | Parallel, Concurrent, and Distributed Programming in Java Specialization | Rice University. Verified Certificate. |
| March 2017 | Nearest Neighbor Collaborative Filtering | University of Minnesota [with Honors]. Verified Certificate. |
| December 2016 | Introduction to Recommender Systems: Non-Personalized and Content-Based | University of Minnesota [with Honors]. Verified Certificate. |
| December 2016 | Big Data Integration and Processing | University of California, San Diego on Coursera. Verified Certificate. |
| November 2016 | Functional Program Design in Scala | École Polytechnique Fédérale de Lausanne on Coursera. Verified Certificate. |
| October 2016 | Big Data Modeling and Management Systems | University of California, San Diego on Coursera. Verified Certificate. |
| September 2016 | Machine Learning | Stanford University on Coursera. Verified Certificate. |
| August 2016 | Algorithms on Strings | University of California, San Diego & Higher School of Economics on Coursera. Verified Certificate. |
| August 2016 | Introduction to Big Data | University of California, San Diego on Coursera. Verified Certificate. |

July 2016	Functional Programming Principles in Scala	École Polytechnique Fédérale de Lausanne on Coursera. Verified Certificate.
July 2016	Algorithms on Graphs	University of California, San Diego & Higher School of Economics on Coursera. Verified Certificate.
July 2016	Hadoop Platform and Application Framework	University of California, San Diego on Coursera. Verified Certificate.
July 2016	Data Structures	University of California, San Diego & Higher School of Economics on Coursera. Verified Certificate.
May 2016	Mastering the Software Engineering Interview	University of California, San Diego on Coursera. Verified Certificate.
April 2016	Algorithmic Toolbox	University of California, San Diego & Higher School of Economics on Coursera. Verified Certificate.
March 2016	Advanced Data Structures in Java	University of California, San Diego on Coursera. Verified Certificate.
November 2015	Object Oriented Programming in Java	University of California, San Diego on Coursera. Verified Certificate.

Last Update: 8/7/2018