

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
- Recommendation System
- Machine Learning
- Evolutionary Computation and Genetic Algorithms
- Image Processing and Computer Vision

Skills

Programming Skills:

- Proficient in Java SE, JavaFX and Scala. Familiar with C++.
- Expert in Object Oriented Programming and Familiar with Design Patterns.
- Some experience with Spark java web framework, Play framework, and FreeMarker template engine.
- 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, Eclipse

Operating Systems: Linux, Windows

Teaching Experience

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

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

Spring 2015 **Advanced Programming in Java** Teaching Assistant, K.N. Toosi University of Technology (Two Semester)
Spring 2017 Instructor: [Mahdi Zamanian](#)
• Providing Video Tutorial about JavaFX.
• Wrote extensive and effective exam preparation for students.

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

Spring 2015 **GUI in Java Using JavaFX Workshop** Lecturer, K.N. Toosi University of Technology

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 for Communications Regulatory Authority of Iran.**
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 use as a resource for students of the “Differential Equation” and “Advanced Engineering Mathematics” course in K.N. Toosi University of Technology.

Certificates

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| 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: 8/6/2017