Mohammad Hossein Rimaz

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# Education

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

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| 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

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| Fall 2016 Spring 2017 Spring 2018 | **Advanced Programming in Java** Teaching Assistant, K.N. Toosi University of Technology (Three Semester) Instructor: [Mehdi Esnaashari](https://scholar.google.com/citations?hl=en&user=kf0UQKMAAAAJ) |
| Spring 2015 Spring 2017 Spring 2018 | **Advanced Programming in Java** Teaching Assistant, K.N. Toosi University of Technology (Three Semester) Instructor: [Mahdi Zamanian](http://wp.kntu.ac.ir/zamanian/) |
| 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](https://scholar.google.com/citations?user=mGF6p48AAAAJ&hl=en) |
| Fall 2016 | **Data Structure** Teaching Assistant, K.N. Toosi University of Technology Instructor: [Babak Nasersharif](http://wp.kntu.ac.ir/bnasersharif/) |
| Fall 2015 | **Advanced Programming in Java** Teaching Assistant, K.N. Toosi University of Technology Instructor: [Sayyed Kamyar Izadi](http://wwwlgis.informatik.uni-kl.de/cms/dbis/staff/formermembers/izadi/) |

# Projects

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| 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**](http://wp.kntu.ac.ir/ahmadi/) and **Ph.D.** [**Saeed Sedighian Kashi**](http://wp.kntu.ac.ir/sedighian/) 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**](http://wp.kntu.ac.ir/aliakbarian/ODE/ODE.html) **&** [**PDE MathTools**](http://wp.kntu.ac.ir/aliakbarian/pde/)**:** Role: **Developer, Web Site Designer |** Supervisor: [**Ph.D. Hadi Aliakbarian**](http://wp.kntu.ac.ir/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

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| May 2018 – May 2019 | **K. N. Toosi University of Technology ACM Student Chapter** Role: **Chapter Chair |** Chapter Website:[**https://kntu.acm.org**](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/**](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.](https://www.coursera.org/account/accomplishments/specialization/7XPLLTAAT4TG) |
| March 2017 | **Nearest Neighbor Collaborative Filtering** University of Minnesota [with **Honors**]. [Verified Certificate.](https://www.coursera.org/account/accomplishments/verify/PZNSF9HR2TS4) |
| December 2016 | **Introduction to Recommender Systems:** University of Minnesota [with **Honors**]. [Verified Certificate.](https://www.coursera.org/account/accomplishments/verify/DUQNZMH9CU7W) **Non-Personalized and Content-Based** |
| December 2016 | **Big Data Integration and Processing** University of California, San Diego on Coursera. [Verified Certificate.](https://www.coursera.org/account/accomplishments/verify/4GGUNARB9MBQ) |
| November 2016 | **Functional Program Design in Scala** École Polytechnique Fédérale de Lausanne on Coursera. [Verified Certificate.](https://www.coursera.org/account/accomplishments/certificate/LNSNRHKK4K44) |
| October 2016 | **Big Data Modeling and Management Systems** University of California, San Diego on Coursera. [Verified Certificate.](https://www.coursera.org/account/accomplishments/certificate/NDLW93FX3U99) |
| September 2016 | **Machine Learning** Stanford University on Coursera. [Verified Certificate.](https://www.coursera.org/account/accomplishments/certificate/JE788VNJ6TKS) |
| August 2016 | **Algorithms on Strings** University of California, San Diego & Higher School of Economics on Coursera. [Verified Certificate.](https://www.coursera.org/account/accomplishments/certificate/ZALUCS3TDQTD) |
| August 2016 | **Introduction to Big Data** University of California,San Diego on Coursera. [Verified Certificate.](https://www.coursera.org/account/accomplishments/certificate/XE3LV3RG2THG) |
| July 2016 | **Functional Programming Principles in Scala** École Polytechnique Fédérale de Lausanne on Coursera. [Verified Certificate.](https://www.coursera.org/account/accomplishments/certificate/56M9Y2XYRHNL) |
| July 2016 | **Algorithms on Graphs** University of California, San Diego & Higher School of Economics on Coursera. [Verified Certificate.](https://www.coursera.org/account/accomplishments/certificate/D2GHQ9U8UFN2) |
| July 2016 | **Hadoop Platform and Application Framework** University of California, San Diego on Coursera. [Verified Certificate.](https://www.coursera.org/account/accomplishments/certificate/83JPVK8MSNBQ) |
| July 2016 | **Data Structures** University of California, San Diego & Higher School of Economics on Coursera. [Verified Certificate.](https://www.coursera.org/account/accomplishments/certificate/APYFRBBM2ZED) |
| May 2016 | **Mastering the Software Engineering Interview** University of California, San Diego on Coursera. [Verified Certificate.](https://www.coursera.org/account/accomplishments/certificate/P49QKF9K94RX) |
| April 2016 | **Algorithmic Toolbox** University of California, San Diego & Higher School of Economics on Coursera. [Verified Certificate](https://www.coursera.org/account/accomplishments/certificate/T5JS5739GT3T). |
| March 2016 | **Advanced Data Structures in Java** University of California,San Diego on Coursera. [Verified Certificate.](https://www.coursera.org/account/accomplishments/certificate/3UZ6VLS38VLW) |
| November 2015 | **Object Oriented Programming in Java** University of California, San Diego on Coursera. [Verified Certificate.](https://www.coursera.org/account/accomplishments/certificate/FZC6C9BHMMM2) |

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