Mohammad Hossein Rimaz

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Education

2014–2019 BSc, Software Engineering, K. N. Toosi University of Technology,
Cumulative GPA: 15.85/20 (US CGPA: 3.14/4, ECTS: 2.2/4) (top 15% in the class)
BSc Project Title: Design and Implementation of a Travel Acommodation Recommender System Based on User Interaction History. **Supervisor:** Mehdi Esnaashari
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, Data Mining, Information Retrieval, Recommender Systems

Honors and Awards

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

Publications

Mohammad Hossein Rimaz, Mehdi Elahi, Farshad Bakhshandegan Moghadam, Christoph Trattner, Reza Hosseini, and Marko Tkalčič. 2019. Exploring the Power of Visual Features for Recommendation of Movies. In *27th Conference on User Modeling, Adaptation and Personalization* (UMAP '19), June 9-12, 2019, Larnaca, Cyprus. ACM, New York, NY, USA, 6 pages. https://doi.org/10.1145/3320435.3320470 (**Presented at Conference**) (Accept Rate 21%)

Projects

July 2019–now **Hi-Rec**
Role: Researcher & Developer | Supervisor: M. Elahi
Hi-Rec is a Cross-Platform, Open Source, Extensible and Easy to Use Java framework for recommender systems. Responsibilites: Redesigning the GUI architecture, refactoring the core engine, implementing algorithms.

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.

Language

Farsi (Native), English (Professional Proficiency), Deutsch (A2)

TOEFL: 106	**GRE**
Reading:28, Listening:27, Speaking:24, Writing:27.	Verbal:145 (27%), Quantitative :164(86%), Writing: 3.5 (41%).

Technical Skills

Languages	Java, Python, C++, Scala.
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,REST and SOAP Web Services.
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 2019	Teaching assistant, **Advanced Programming with Java**, KNTU, Instructors: `Mehdi Esnaashari`, `Mahdi Zamanian`, `Sayyed Kamyar Izadi`
Spring 2017	Teaching assistant, **Algorithms**, KNTU, Instructor: `Amin Nikanjam`
Fall 2016	Teaching assistant, **Data Structure**, KNTU, Instructor: `Babak Nasersharif`

Community Outreach

May 2018-July 2019	Chairman of ACM Student Chapter, KNTU. Chapter Website: `https://kntu.acm.org`
Sep 2017-July 2019	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`.