

Armin Balalaie

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Education

University of California, Irvine

PhD in Software Engineering

Irvine, USA
September 2016 to 2021(expected)

Sharif University of Technology (SUT)

Master of Software Engineering

Tehran, Iran
September 2013 to January 2016

- Thesis Topic: *Developing a Set of Patterns for Migrating Applications into the Cloud*

Shiraz University

Bachelor of Software Engineering

Shiraz, Iran
September 2008 to May 2013

- Thesis Topic: *Scalable Community Detection Using Graphlab*

Work Experience

Pegah DataMiners of Sharif

Senior Software Engineer

April 2015 to July 2016

Tehran, Iran

- Architected the first Mobile Backend as a Service in Iran based on microservices architectural style. We used Java, Maven, Oracle, MongoDB, Redis, Elasticsearch, RabbitMQ, Mesos, Marathon, Netflix OSS, and various Spring projects to develop the system.
- Directly architected and developed or managed different teams to develop services such as realtime gaming, NoSQL as a service, authentication as a service, matchmaking and leaderboards, and cloud code.
- Designed and executed a continuous delivery pipeline and deployment architecture for deployment in scale using Gitlab, Artifactory, Jenkins, Docker, Kubernetes, HAProxy, Nginx, and bind.
- Designed and implemented cross functional libraries for using Java in a microservices context by making the most out of Netflix OSS and Spring Cloud projects.
- Mentored and managed a group of 10 highly talented engineers to work under DevOps culture.

Center of Intelligent Information Systems

Senior Software Engineer

July 2014 to November 2014

Tehran, Iran

- Effectively used TM Forum standards for architecting the first Operational Support System in Iran.
- Identified and adjusted a tailored list of services presented in TM Forum standard based on the project needs.

Amid Rayane Sharif

Senior Software Engineer and Data Analyst

August 2013 to June 2014

Tehran, Iran

- Effectively used Hadoop and MongoDB for finding influential users in Facebook using state-of-the-art algorithms.
- Designed and implemented a transactional synchronizer between Neo4j and PostgreSQL using Python/Django.

Publications

1. **Balalaie, A.**, Heydarnoori, A., and Jamshidi, P. "Migrating to Cloud-Native Architectures Using Microservices: An Experience Report." in *Advances in Service-Oriented and Cloud Computing - Workshops of ESOC 2015*, Taromina, Italy, Sep. 2015, pp. 201-215.
2. **Balalaie, A.**, Heydarnoori, A., and Jamshidi, P. "Microservices Enables DevOps: an Experience Report on Migration to a Cloud-Native Architecture" *IEEE Software Special Issue on Software Engineering for DevOps*, vol. 33, no. 3, pp. 42-52, May 2016.
3. **Balalaie, A.**, Heydarnoori, A., and Jamshidi, P. "Microservices Migration Patterns" Technical Report No. 1, TR-SUT-CE-ASE-2015-01, Automated Software Engineering Group, Sharif University of Technology, Oct. 2015.

Honors and Awards

- Received UCI Graduate Dean Recruitment Fellowship, 2016
- Received UCI Department of Informatics Fellowship for the duration of my studies at UCI, 2016
- Ranked 17th in the nationwide entrance exam for graduate studies with more than 30,000 participants, Iran, 2013
- Recognized as gifted in the nationwide entry exam of National Organization for the Development of Exceptional Talents (NODET), Iran, 2001 and 2004