

VAHID MAVAJI

Software Engineer

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EXPERIENCE

Data Technical Lead

Sheypoor

May. 2019 – Now Tehran, Iran

Data Engineer

Pegah Tech (Pegah Dadekavan Sharif)

Oct. 2018 – Feb. 2019 Tehran, Iran

- Worked on Tapsell project using big data architectures and solutions to implement parallel processing of multiple data streams. Tapsell is a digital ad agency/network, enabling both advertisers and publishers to achieve their demanding targets. It runs CPI, CPA, CPL, and CPC campaigns for local advertisers, agencies, and app owners/developers and is able to show the right ad at the right time, to deliver highest eCPMs.

Technical Lead

Alounak (Alounak Tadbirgaran Houshmand)

Oct. 2017 – Jul. 2018 Tehran, Iran

- Worked on Alounak software, which connects real estate agents to consumers; people can search for properties and contact agents; it consists of Android and iOS apps for agents and consumers, in addition to a comprehensive responsive website.
- Defined and coordinated the technical tasks for the development of the software.
- Created and managed architecture diagrams and plans.
- Developed the architecturally significant components of the software system.
- Communicated technical issues/decisions effectively to PM and sponsor by using business terms.

Technical Lead

DAB (Dadekavan Andishe Bartar)

Jul. 2013 – Sep. 2017 Tehran, Iran

- Designed and developed a requirement gathering and workflow management system for National Informatics Corporation.
- Designed and developed a news gathering, information mining and analysis system.
- Worked on student management systems for major Iranian universities.
- Led a team of backend and frontend developers.
- Wrote comprehensive documents for the projects.

Senior Java Developer

IIC (Department of Information Technology and Statistics, Iran Insurance Company)

EDUCATION

M.Sc. in Computational Linguistics

Sharif University of Technology

Sep. 2010 – Jul. 2012

M.Sc. in Computer Engineering

Sharif University of Technology

Sep. 2004 – Sep. 2006

B.Sc. in Computer Engineering

Iran University of Science and Technology

Sep. 2000 – Sep. 2004

Architecture

Iran University of Science and Technology

Sep. 1999 – Jun. 2000

TECHNICAL SKILLS

Scala, Java, Python, Haskell, Kotlin, C, JavaScript

Apache Spark, Apache Kafka

Apache Cassandra, MongoDB, Redis, Elasticsearch, MySQL, Oracle Database

GNU/Linux, Docker, Kubernetes, Jenkins, Git, Kibana, Grafana

Spring Framework, Spring Boot, Spring Cloud, Spring Data, Spring Web Services, Spring Security, Spring Web Flow

Object-Oriented, Functional, Reactive, Concurrent and Parallel Programming, Test-Driven Development, Design Patterns, Software Architecture

📅 Jan. 2007 – Jun. 2013

📍 Tehran, Iran

- Designed, developed, and maintained a core module for insurance subsystems (health, automobile and transport) as a member of software architecture team.
- Provided templates and standards and assisted colleagues in using the core module in insurance subsystems.
- Provided necessary documentation for the project.

Junior Java Developer

Kyansoft (Kian Noor Rayaneh)

📅 Apr. 2004 – Sep. 2004

📍 Tehran, Iran

- Worked on LUCAS POS system (a retail management system used throughout Europe) with Logware GmbH.

PUBLICATIONS

📖 Books

- Khosravizadeh, P. et al. (2012). *An Encyclopedic Dictionary of Computational Linguistics*. Tehran: Pardis-e-Danesh. ISBN: 978-600-5711-93-6.

📄 Journal Articles

- Mavaji, V. and M. Eslami (2012b). "Comparison of Phonetic Structure of Formal and Colloquial Persian". In: *Pazand Quarterly* 30, pp. 107–118. ISSN: 1735-2290.
- Mavaji, V., M. Eslami, and B. Vazirnezhad (2012). "Pars Morph: A Persian Morphological Analyzer". In: *Journal of Signal and Data Processing* 15.1, pp. 3–8. ISSN: 2008-3262.

👥 Conference Proceedings

- Mavaji, V. and B. Abbasi (Oct. 2013). "Effect of Buffer Size and Packet Delay on the Survivability of Packet Switched Networks". In: *The 1st National Conference on New Approaches in Computer Engineering and Information Retrieval*. Roudsar, Iran.
- Mavaji, V. and M. Eslami (Feb. 2013a). "Statistical Analysis of the Evolution of Derivational Affixes in Persian Verse". In: *The 8th Iranian Conference on Linguistics*. Allameh Tabatabaei University, Tehran, Iran.
- – (May 2013b). "Automatic Detection of Prosodic Meter of Classical Persian Poetry". In: *The 2nd National Conference on Farsi Language Teaching and Linguistics*. Shiraz, Iran.
- – (Sept. 2012a). "Text to Phoneme Conversion using Morphological Analyzer". In: *The 1st International Conference on Persian Language Processing*. Semnan, Iran.
- Abbasi, B. and V. Mavaji (Nov. 2011). "A Framework for Survivability Evaluation". In: *The 3rd International Conference on Advanced Management Science*. Kuala Lumpur, Malaysia.

👤 Theses

- Mavaji, V. (2012). "Designing and Implementing a Morphological Analyzer for Persian Language". MA thesis. Department of Languages and Linguistics, Sharif University of Technology.

TEST SCORES

English

TOEFL iBT, 103/120

📅 Dec. 10, 2011

- Reading: 28/30
- Listening: 28/30
- Speaking: 20/30
- Writing: 27/30

French

DELFB1, 79.5/100

📅 Aug. 24, 2010

- Production Écrite: 19/25
- Compréhension Écrite: 21/25
- Production Orale: 18.5/25
- Compréhension Orale: 21/25

GRE

GRE General Test

📅 Nov. 19, 2011

- Verbal Reasoning: 147/170
- Quantitative Reasoning: 158/170
- Analytical Writing: 4/6

TEACHING

Laboratory Instructor

Sharif University of Technology

📅 Feb. 2006 – Jun. 2006

- Network and Data Communication Laboratory
- Logic Circuit Design Laboratory

Teaching Assistant

Sharif University of Technology

📅 Feb. 2005 – Jun. 2005

- Logic Circuit Design

Teaching Assistant

Iran University of Science and Technology

📅 Feb. 2003 – Jun. 2003

- Artificial Intelligence

Teaching Assistant

Iran University of Science and Technology

📅 Sep. 2002 – Jun. 2003

- Electrical Circuits II

- Mavaji, V. (2006). "Extending the Survivability Model for Packet Switched Networks Considering Packet Delay and Buffer Size". MA thesis. Computer Engineering Department, Sharif University of Technology.
- – (2004). "Designing and Implementing an 8051 Microcontroller Training Board". Bachelor's Thesis. Computer Engineering Department, Iran University of Science and Technology.

COURSEWORK

- **Computational Linguistics (M.Sc.):** Intro. to Linguistics, Phonetics, Formal Syntax, Intro. to Computational Linguistics, Semantics and Pragmatics, Statistical Methods in NLP, Morphology, NLP, Adv. Syntax, Acoustics, Psycholinguistics, Phonology, Linguistics and Literature; **GPA: 18.36/20.**
- **Computer Engineering (M.Sc.):** Fault-Tolerant Sys Design, Adv. Computer Architecture, Testability, Fuzzy Systems, Adv. Computer Networks, Interconnection Networks, Digital Signal Processing, Stochastic Processes; **GPA: 17.88/20.**
- **Computer Engineering (B.Sc.):** Computer Programming, Data Structures, Assembly Programming, Digital Logic Circuits, Algorithm Design, Computer Architecture, Digital Electronics, Signals and Systems, Artificial Intelligence, Design and Implementation of Programming Languages, Operating Systems, Microprocessors, Data Transmission, Linear Control Systems, Storage and Retrieval, Languages and Machines, Computer Networks, VLSI, Computer Systems Architecture; **GPA: 16.25/20.**
- **Architecture:** Architectural Perception I and II, Environmental Perception, Applied Geometry, Materials and Construction Workshop, Statics.

ACCOMPLISHMENTS

- ★ **2012**
The First Person to Graduate in Computational Linguistics in Iran.
- ★ **2011**
Granted a Studentship of 1200€ per month from Digital Enterprise Research Institute (DERI), National University of Ireland, Galway as a Visiting Research Student from 2012-02 to 2012-08.
- 🏆 **2010**
Ranked 23rd Among 4,500 Participants of the Nationwide University Entrance Examination for M.Sc. in Linguistics.
- ★ **2009**
Granted 5 Months of Exemption from Military Service by National Elites Organisation.
- 🏆 **2004**
Ranked 42nd Among 5,800 Participants of the Nationwide University Entrance Examination for M.Sc. in Computer Engineering.
- ★ **2003**
Awarded the Rank Second Prize of the Department of Computer Engineering.
- 🏆 **1999**
Ranked top 0.1% Among More than 500,000 Participants of Nationwide University Entrance Examination.