VAHID MAVAJI

Software Engineer

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EXPERIENCE

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)*

📅 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.

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

- 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.
- – (2006). "Extending the Survivability Model for Packet Switched Networks Considering Packet Delay and Buffer Size". MA thesis. Computer Engineering Department, 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
DELF B1, 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. (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.