

Mortaza Zolfpour Arokhlo

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Professional Summary

Experienced Software Developer and IT Leader with a Ph.D. in Computer Science and over 20 years of combined academic and industry expertise in software engineering, AI, and IT systems. Adept at leading development teams, designing robust software architectures, and delivering secure, scalable, and high-performance applications. Skilled in full-stack web development, multi-agent systems, reinforcement learning, and agile project management. Recognized for strong problem-solving abilities, mentoring capabilities, and a commitment to clean, maintainable code and continuous innovation.

Technical Skills

- **Languages:** Python, JavaScript, PHP, VB, Java, C#
- **Web:** HTML/CSS, WordPress, Apache, Dreamweaver
- **Databases:** MySQL, PostgreSQL, Oracle, SQL Server, MS Access and FoxPro.
- **Tools:** VS Code, NetBeans, Notepad++, LaTeX
- **Domains:** Cybersecurity, Machine Learning, AI, Software Engineering
- **Soft Skills:** Agile methods, technical writing, project leadership, teamwork

Professional Experience

Assistant Professor, Islamic Azad University, Iran 2010 – 2024
Taught and developed courses in software engineering, databases, AI, and cybersecurity. Supervised over 100 IT projects. Led digital transformation initiatives and consulted on system design and development.

Postdoctoral Researcher, Complutense University of Madrid, Spain 2020 – 2021
Conducted applied AI research in smart transportation and multi-agent systems. Developed simulation models for route planning.

Postdoctoral Fellow, University of Technology Malaysia 2014 – 2015
Worked on agent-based software systems and intelligent web technologies in transport and logistics domains.

Director of ICT, Marvdasht Branch, Islamic Azad University, Iran 2003 – 2009
Led a software development team to build and maintain academic systems. Oversaw full-stack development, task planning, and delivery. Contributed to digital transformation and ICT infrastructure management.

Software developer, Shiraz Shahed Industrial Complex, Iran 1996 – 2002
Designed and implemented enterprise software systems. Led internal tools development and system upgrades.

Education

Ph.D. in Computer Science , University of Technology Malaysia <i>Thesis: Multi-agent Models for Route Planning</i>	2010 – 2013
M.Sc. in IT Engineering , Shiraz University, Iran <i>Thesis: Using RFID Technology in Libraries and Information Centers</i>	2006 – 2008
M.Sc. in Industrial Engineering , Iran PG Institute of Industry <i>Thesis: Reliability Systems via Boolean Algebra</i>	1997 – 2000
B.Sc. in Mathematics , Razi University, Iran	1990 – 1994

Selected Publications

- Zolfpour-Arokhlo, M. et al. (2014). “Modeling route planning using Q-learning with multi-agent systems.” *Eng. Appl. of AI*, 29, 163–177.
- Zolfpour-Arokhlo, M. et al. (2013). “Multi-agent supply chain route planning.” *Expert Systems with Applications*, 40(5), 1505–1518.
- Zolfpour-Arokhlo, M. et al. (2011). “RFID-based management in libraries.” *Iranian J. of Info Processing*, 26, 285–299.
- Full list available upon request or on Google Scholar.

Certifications & Achievements

- \$30,000 International Doctoral Fellowship, UTM Malaysia (2010–2013)
- Patent: Route Guidance Algorithm with Multi-agent Reinforcement Learning (2012)
- Reviewer: IEEE Trans. on Cybernetics, Elsevier, Springer
- Editor-in-Chief: IJ-AI and IJSET (2013–present)

References

Available upon request.