NAVID SEIDI

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EDUCATION

Ph.D. Student – Computer Science **2022 - Present**
Missouri University of Science and Technology ↗ *Rolla, MO, USA*

Under the supervision of **Dr. Sajal K. Das** ↗

Master of Engineering (Information Technology – Computer Networks) **2013 - 2019**
Islamic Azad University *Qazvin, Iran*

Thesis Title: "Designing and Implementing Virtual Information Desk System with Pervasive Computing Approach".

Bachelor of Engineering (Information Technology) **2007 - 2012**
Payame Noor University *Alborz, Iran*

PUBLICATIONS / PRESENTATIONS

- **Seidi, Navid**, Ardhendu Tripathy, Sajal K. Das, **"Using Geographic Location-based Public Health Features in Survival Analysis"**, 2023 IEEE/ACM Conference on Connected Health: Applications, Systems and Engineering Technologies (CHASE), Orlando, FL, USA, Jun. 21-23, 2023, DOI: 10.1145/3580252.3586972, pp.80-91.

- **Seidi, Navid**, Eshghi, Farshad and Kelarestaghi, Manoochehr, **"PV2MS: Patient Virtual Visitation Management System in the Context of a Smart City"**, Proceedings of IEEE EUROCON 2019 - 18th International Conference on Smart Technologies, Novi Sad, Serbia, Jul. 1-4, 2019, DOI: 10.1109/EUROCON.2019.8861958, pp. 1-5.

- **Seidi, Navid**, Eshghi, Farshad and Kelarestaghi, Manoochehr, **"VID: Virtual Information Desk"**, 2017 IEEE 41st Annual Computer Software and Applications Conference (COMPSAC), Turin, Italy, Jul. 4-8, 2017, DOI: 10.1109/COMPSAC.2017.261, pp. 366-371.

RESEARCH INTERESTS

- Survival Analysis
- Data Analytics
- Neural Networks
- Health Informatics
- Machine Learning
- Smart Health

RESEARCH PROJECTS (CreWMan Lab, under the supervision of Dr. Das) ↗

SmarTreatMate: Advanced Analytics for Personalized Treatment **2022 - Present**

Description: Pioneering a federated learning-based platform to enhance the precision of survival analysis models using geographic-related public health data, aiming for more accurate treatment recommendations and improved patient outcomes.

Accomplishments: Successfully completed the Great Lakes Hub Regional W23 Medical Jumpstart and NSF National I-Corps programs, acquiring vital skills in customer discovery and business model validation for medical innovations.

Recognition: Secured a $50K NSF grant titled "I-Corps: An Advanced Analytics Platform for Personalized Treatment" (Award Abstract 2330769). ↗

RESEARCH PROJECTS (SIGNET lab. under the supervision of Dr. Eshghi)

Smartening Hospital Workflow   2018 - 2020
Position: Manager, organizer and director
Description: Review, modify, standardize, and streamline current hospital workflow (patient flow, medical care, physical resources, and internal systems).

Mobile Conference Application   2017 - 2018
Position: Senior Software Developer
Description: Designing, developing, and deploying a cross-platform mobile application using Ionic framework.

T-Coding   2016 - 2018
Position: iOS Developer
Description: Designing, developing, and deploying the iOS version of "T-Coding Vocabulary Learning Method" as a freelancer from scratch.

RFID Based Real-Time Location System   2016 - 2018
Position: Project Manager & Software Developer
Description: Designing, developing, and deploying the PC software of an RFID-based real-time location system implemented in Sajjad Hospital

TecTouch   2015 - 2017
Position: Project Manager & iOS Developer
Description: Managing the technical team and working as an iOS developer in the process of designing and deploying a cross-platform application for online food ordering inside the Kharazmi University campus from scratch.

BME (Alborz Insurance Co.)   2014 - 2015
Position: Project Manager & Software Developer
Description: Managing the technical team and working as an iOS developer in the process of designing and developing a cross-platform application for online insurance service shopping for Alborz Insurance Co. from scratch.

WORKING EXPERIENCES

Missouri University of Science and Technology - Computer Science Dept.   2022 - Present
Position: **Graduate Research Assistant (Part-Time)**   *Rolla, USA*
Description: Working under the supervision of Dr. Sajal K. Das.

Mehregan Hospital ⬈   2019 - 2021
Position: **IT Manager**   *Qazvin, Iran*
Description: Managing IT department, including:

- Technical maintenance of computer systems, network infrastructure, and other IT devices
- Controlling and evaluating health-related software programs like PACS (Picture Archiving and Communication System) and HIS (Hospital Information System)
- Controlling and monitoring the correct operation of non-health-related software programs
- Managing IT staff

Applied Research Center of Vali Asr Hospital   2018 - 2019
Position: **Research Assistant**   *Tehran, Iran*

Description: Working both as the manager of the research department and the health informatics researcher.

IT Department of Vali Asr Hospital   2014 - 2018
Position: **Founder of Health Informatics Department**   *Tehran, Iran*

Description: Working on facilitating healthcare, patient flow, and hospital workflow using Information Technology tools.

Programmers House Institute   2013 - 2022
Position: **Instructor & Freelance Program Developer**   *Tehran, Iran*

Description:

- Instructor: Teaching the theoretical and practical aspects of program development
- Freelance program developer: Working as a member of the program developer team

IT Department of Vali Asr Hospital   **2012 - 2014**
Position: ***Senior Software Developer***   *Tehran, Iran*
Description: Working as the head of HIS developing team.

IT Department of Vali Asr Hospital   **2009 - 2012**
Position: ***Junior Software Developer***   *Tehran, Iran*
Description: Working as a team member in developing HIS for Vali Asr Hospital.

TEACHING EXPERIENCES

Missouri University of Science and Technology - Computer Science Dept. ↗   **2022 - Present**
Course: ***MATLAB Programming Lab***   *Rolla, USA*

Programmers House Institute ↗   **2016 - 2022**
Course: ***Software Development using Swift***   *Tehran, Iran*

Programmers House Institute ↗   **2014 - 2022**
Course: ***MS SQL Server***   *Tehran, Iran*

Programmers House Institute ↗   **2013 - 2022**
Course: ***Software Development using C***   *Tehran, Iran*

SKILLS

Technical
    Programming Languages (Sorted by the level of mastery): Python, C, Swift, C++, SQL, and MATLAB
    WEB Technologies: HTML, CSS, JavaScript, jQuery, Angular, Bootstrap
    Cloud Platforms: DigitalOcean, Google Cloud Platform and Apple iCloud
    Virtualization: VMWare vSphere (ESXi 5.5), and Docker
    Hardware: Raspberry Pi, and RFID (UHF) Reader Writer (Encoder) Devices
    Applications: LaTeX, GNU Octave, Microsoft Visual Studio, XCode, Sketch, Adobe Photoshop, and Microsoft Office
    Operating Systems: Windows, macOS, Linux (Ubuntu)

Languages
    Persian - Native
    English - Advanced
        IELTS - Overall Score: 7 (listening 7.5, reading 6.5, writing 6.5, and speaking 6.5)
        GRE - Verbal Reasoning: 149, Quantitative Reasoning: 156, Analytical Writing: 3.5

HONORS & AWARDS

- Ranked within the top 4% among approximately 32,500 participants in the Iranian Graduate University Entrance Exam
- Ranked within the top 1% GPA among all major undergraduate students at Karaj Payam Noor University
- Ranked within the top 6% among approximately 343,000 participants in the Iranian Undergraduate University Entrance Exam
- Accepted to take part in "Physics Olympiad Stage 2" from top 1% of participants in "Physics Olympiad Stage 1", Iran
- Skipped the 7th grade during junior high school

HOBBIES & INTERESTS

- Reading
- Listening to Music
- Playing Soccer
- Cooking
- Watching movies & TV Series
- PLaying video games

REFRENCES

Sajal K. Das (Ph.D. Advisor)
Professor and Daniel St. Clair Endowed Chair
Department of Computer Science, Missouri University of Science and Technology
E-mail: sdas@mst.edu

Ardhendu Tripathy (Ph.D. Co-Advisor)
Assistant Professor, Department of Computer Science, Missouri University of Science and Technology
E-mail: astripathy@mst.edu

Farshad Eshghi (MSc Thesis Advisor)
Assistant Professor, Department of Electrical Computer Engineering, University of Kharazmi, Tehran, Iran.
E-mail: farshade@khu.ac.ir and farshade@gmail.com