

Mustafa Semih Sadak, PMP

İstanbul, TÜRKİYE

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Personal Profile

Experienced Project Manager with a strong background in large-scale software development and system integration. Proven track record in leading agile teams and delivering mission-critical platforms for air traffic control and parliamentary operations. PMP® certified, with a keen interest in secure, innovative, and explainable AI-driven solutions.

Work Experience

TÜBİTAK

Kocaeli, TURKEY

Project Manager

May 2017 - Present

- Project management of the Parliamentary Minutes Information System for the Grand National Assembly of Turkey: Digital transformation of traditional minutes processes with speech and speaker recognition features (12-member team). The developed system is actively in use and has significantly improved process efficiency.
- Project management of Air Traffic Control Systems: Successful delivery of scheduling, remote training, and personnel management modules (6-member team).
- Active role in project lifecycle management using agile methodology, including requirements analysis, design, development, testing, reporting, and delivery processes.
- **Technologies:** Java, MySQL, MongoDB, Angular.js, Vue.js, Spring Boot, JavaScript, HTML, CSS, Docker, Kubernetes, Kafka, RabbitMQ.
- **Tools:** Bitbucket, Confluence, Jira, Sonarqube, Jenkins, JMeter, Prometheus, Grafana and Acunetix.

TÜBİTAK

Kocaeli, TURKEY

Senior Software Engineer

June 2014 - May 2017

- Software development for distributed system architecture within an air traffic controller simulation project.
- Developed a performance evaluation tool using Java, RTI, HLA, JasperReports, MySQL, and LuciadMap to assess real-time activities of air traffic controller trainees.
- Tested software for bugs and performance, resolved issues, and created documentation to enhance process efficiency.

TÜBİTAK

Kocaeli, TURKEY

Software Engineer

March 2011 - June 2014

- Developed web-based applications for talent assessment, personnel management systems, and online exam systems for air traffic controllers.
- Involved in design, development, unit testing, reporting, and delivery phases.
- **Technologies:** Java, JSF, Primefaces, Seam Framework, JBoss, MySQL, JavaScript, JQuery, HTML, and CSS.
- **Tools:** SVN, IBM Jazz, Confluence, Sonarqube, Jenkins, JMeter, and Acunetix.

CETECH-ADTECH

İstanbul, TURKEY

Software Engineer

May 2010 - March 2011

- Developed a web application using Java EE, JSF, Primefaces, and HTML/CSS technologies for Turkcell call center employees.
- Developed Java EE-based software applications for Mobile Service Delivery Platform (VAS&CMS Infrastructure) with a Service-Oriented Architecture (SOA).
- Conducted bug and performance testing of software, implemented improvements, and created process documentation.

Education

Yıldız Technical University

İstanbul, TÜRKİYE

Ph.D. in Electronics and Communication Engineering

2013 - 2022

- **Thesis Title:** Fusion of Dynamic and Static Features for Handwritten Signature Verification
- **Advisors:** Prof. Nihan Kahraman, Dr. Umut Uludağ

Yıldız Technical University

İstanbul, TÜRKİYE

M.S. in Mathematical Engineering

2009 - 2011

- **Thesis Title:** Performance Comparison of Numerical Algorithms Used in Solving Engineering Problems
- **Advisor:** Prof. Hülya Şahintürk

Yıldız Technical University

İstanbul, TÜRKİYE

B.S. in Mathematical Engineering

2004 - 2009

Certificates

Project Management Professional (PMP)®

Issued by: Project Management Institute (PMI)

Certificate ID: 4041056 Valid through: February 6, 2028

Skills

Programming: Java, Python (Pandas, PyTorch, NumPy, Scikit-learn, Keras, Librosa, Kaldi etc.), C/C++, HTML/CSS, JavaScript, SQL.
Miscellaneous: Jira, Confluence, Linux, Shell (Bash/Zsh), MS Office, MS Project, Latex (Overleaf/R Markdown).
DevOps & CI/CD: Docker, Kubernetes, Kafka, RabbitMQ, Prometheus, Grafana, Jenkins, SonarQube, JMeter, Acunetix, Git, Bitbucket, SVN.
Soft Skills: Leadership, Coaching, Effective Communication, Problem-solving, Time Management, Teamwork, Documentation.

Additional Activities

Lecturer at İstanbul Okan University (2023–Present): Courses include Web Programming, Image Processing, and Advanced Programming Techniques.

Publications

JOURNAL ARTICLES

[1] Mustafa Semih Sadak, Nihan Kahraman, Umut Uludağ. *Dynamic and static feature fusion for increased accuracy in signature verification*. Signal Processing: Image Communication, vol. 108, p. 116823, Elsevier, 2022.

CONFERENCE PROCEEDINGS

[1] Mustafa Semih Sadak, Nihan Kahraman, Umut Uludağ. *Handwritten signature verification system using sound as a feature*. 43rd Int. Conf. on Telecommunications and Signal Processing (TSP), 2020.

[2] Abdülkerim Öncü, Ömer Faruk Arar, Samet Akpınar, Özkan Yalçın, Ümit Mert, Mustafa Semih Sadak, Gürol Toker, Suat Yıldırım, Uğur Öztürk. *Developing an Electronic Examination System for Aptitude Measurement and Application to Air Traffic Controller Selection (in Turkish)*. UYMS, 2014.

[3] Ömer Faruk Arar, Abdülkerim Öncü, Samet Akpınar, Özkan Yalçın, Ümit Mert, Mustafa Semih Sadak, Selahattin Kosunalp. *A flexible e-exam framework and air traffic controller selection system*. 3rd World Conference on Information Technology (WCIT), AWERProcedia Information Technology & Computer Science, 2013.

References

Available upon request.