Fatih Bildirici PhD(c)
Artificial Intelligence Enthusiast

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Summary

As an MSc graduate from Ankara Yıldırım Beyazıt University and a **PhD candidate in Artificial Intelligence at Ankara University**, I bring a deep knowledge of AI-based solutions to my role at HAVELSAN. As an expert in artificial intelligence and generative AI, I develop innovative and efficient processes in software configuration management, release management and change management. I optimize software development lifecycles with AI-driven data analytics and automation strategies, and improve product release and change management using advanced, data-driven strategies. I simplify configuration workflows and provide effective solutions by using the power of AI in strategic decision-making processes.

Education

PhD Ankara University, Artificial Intelligence — 2023 - Present
- Program: Ankara University Institute of Sciences Artificial Intelligence PhD.
- **Focus:** MLOps & AIOps and Generative AI / Integreated Software Development

MSc Ankara Yıldırım Beyazıt University, Management Information Systems (English) — 2021 - 2023
- **Thesis:** Focused on Agile DevOps in Defense.
- **Coursework:** Data science-driven MIS training is designed to optimize business processes and support strategic decision-making.

BSc Ankara Yıldırım Beyazıt University, Management Information Systems (English) — 2012 - 2017
- **Coursework:** Software Development, Software Product & Project Management.
- Specialized in applying MIS principles to software development and management.

Experience

HAVELSAN, Lead Software Specialist — Ankara, TUR — June 2021 to Present
- Integrated AI and data analytics to enhance agile software development metrics, enabling more accurate sprint planning and progress tracking. Developed infrastructure tools to automate performance monitoring and provide real-time insights, leading to a 30% improvement in delivery times.
- Leveraged machine learning models to predict development bottlenecks and optimize resource allocation. Created data-driven infrastructure solutions that streamlined code deployment and reduced error rates, improving overall development efficiency by 25%.

AYESAS / Zorlu Defense, Software Engineer — Ankara, TUR — July 2019 to July 2021
- Optimized software development processes, reducing configuration errors by 45% and accelerating release cycles by 35%. Implemented automated version control systems and configuration audits, enhancing overall system reliability and agility.
- Streamlined release and change management workflows, ensuring seamless and compliant software deployments. Recognized for outstanding contributions to process optimization, digital transformation, and agile development practices.

ETIYA IT, Technical Software Analyst & Product Owner — Ankara, TUR — Sept 2017 to July 2019
- Led requirement analysis and developed comprehensive product strategies, improving system performance and scalability by 20
- Advocated Agile practices and served as Scrum Master, boosting team productivity by 25
- Implemented automated testing frameworks and enhanced software testing processes, reducing bugs by 30

Publications

Open-Source AI: An Approach to Responsible Artificial Intelligence Development   2024

Published in Reflektif Journal of Social Sciences, 2024. This paper discusses how open-source frameworks can drive ethical practices in AI development, enhancing transparency and accountability in emerging technologies.
10.47613/reflektif.2024.145 ☑

From Agile to DevOps: Holistic Approach for Faster and Efficient Software Release Management   2023

Appeared in AYBU Business Journal, 2023. This article examines how integrating Agile and DevOps practices can streamline software development processes, significantly reducing time-to-market for software products.

Using Agile Story Points And Game Theory Together: Better Software Planning And Development In Agile Software Development   2023

Presented at The 10th International Management Information Systems Conference, 2023. The study explores the synergy between agile methodologies and game theory to enhance decision-making and resource allocation in software projects.

DevOps and Agile Methods Integrated Software Configuration Management: HAVEL-SAN Experience   2023

Featured in the National Software Engineering Symposium (UYMS), 2023. This publication details the successful integration of Agile and DevOps methodologies within HAVELSAN, showcasing improvements in software configuration management practices.

Projects

Organ Transplantation Optimization Algorithm   Feb. 2024

- Developed a Python-based tool using advanced machine learning algorithms to optimize organ transplantation processes, significantly enhancing efficiency and patient outcomes.

Scaled Agile Framework with Hexagonal Architecture   2023 - 2024

- Pioneered a scalable Agile framework incorporating Hexagonal Architecture to improve modularity and maintainability of software development projects.

Skills and Stacks

Artificial Intelligence	**Tools:** Python, TensorFlow, Keras, PyTorch, Scikit-Learn, Jupyter, Pandas, NumPy, HuggingFace **Skills:** Machine learning model development, deep learning, natural language processing, data preprocessing, feature engineering, model evaluation and optimization, automated machine learning (AutoML), AI-driven analytics, data visualization, reinforcement learning, deployment of AI models, ethical AI practices, AI integration into business processes, AI strategy and governance, data ethics, explainable AI (XAI)
Programming & Development	**Languages:** Python, Java, JavaScript, Groovy **Skills:** Scalable application development, code optimization, debugging, RESTful API design, Git version control, CI/CD, SDLC management, TDD, performance tuning, microservices, Docker, Kubernetes, cloud services (AWS, GCP, Azure), SQL/NoSQL databases
DevOps & Infrastructure	**Tools:** Git, Jenkins, Ansible, Terraform, Docker, Kubernetes, ArgoCD, Swarm, GitLab CI/CD, ELK Stack **Skills:** CI/CD pipeline optimization, version control, automated configuration audits, infrastructure as code, deployment automation, change and release management, monitoring and logging, compliance and traceability, system reliability, container orchestration, GitOps, DevSecOps, automated testing
Product Management & Agile Practices	**Tools:** JIRA, Confluence, Trello, Slack, Miro, Roadmapping araçları, Figma, Adobe XD, Sketch, Tableau, Google Analytics, HubSpot, Mixpanel, Aha!, Productboard **Skills:** Product Strategy Development, Data Analysis, Agile Methodologies (Scrum, Kanban), Product Lifecycle Management, User Story Development, Ux/ui Design, Mvp Development, Customer Feedback Analysis, Market Research, Competitive Analysis, Roadmap Planning, Risk Management, Performance Metrics Monitoring, Growth Hacking, Innovation Management, System Design and Architecture, Technical Project Management