Abdollah Zakeri

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Summary — Ph.D. in Computer Science with expertise in computer vision, deep learning, and robotics, backed by strong research, publications, and industry experience.

Selected Skills

Languages	Python, C++, Shell, MATLAB	**Multimodal**	Vision-Language Models, Prompt Engineering
Deep Learning	PyTorch, TensorFlow, Lightning	**Deployment**	Docker, Conda, TensorRT, CUDA, Slurm, Git
Computer Vision	OpenCV, YOLO, TorchVision, Detectron2	**Data Science**	Pandas, Numpy, SQL, Matplotlib,
LLMs / GenAI	Transformers, Tokenizers, LangChain, OpenAI		Scikit-KLearn, XGBoost, LightGBM

Experience

C3.AI - Data Science Intern — Redwood City, CA - May 2024 – Aug 2024
– Developed and deployed multi-modal vision network for C3.AI property appraisal R&D
– Developed and deployed a complete ML solution for C3.AI property appraisal product

University of Houston - Graduate Research Assistant, Robotics & AI — Houston, TX - Aug 2022 – August 2025
– Led AI and vision system development for autonomous mushroom harvesting robot.
– Learning Disability (LD) risk assessment based on handwriting using multi-modal classification
– COVID severity detection for pediatric patients using CXR images and vision transformer

Pencode Software (Founder) - Team Lead & AI Engineer — Iran - Jul 2016 – Aug 2022
– Delivered ML solutions for quality assessment (e.g., X-ray tire inspection using CNNs).
– Supervised multiple student teams; organized ACM ICPC training and contests at university level.

Education

Ph.D. in Computer Science - GPA: 3.91 — University of Houston - Aug 2022 – Present
– Research focus: computer vision, robotics, multimodal deep learning.

M.S. in AI & Robotics Engineering - GPA: 3.91 — Shahrood Univ. of Technology - Sep 2020 – Aug 2022
– Research focus: Deep learning, Computer Vision, Biometrics

B.S. in Software Engineering - GPA: 3.67 — University of Birjand - Sep 2015 – Mar 2020

Honors and Awards
– 2nd place in Coogs-for-energy hackathon - University of Houston
– 2nd place in C3.AI company-wide generative AI hackathon
– 1st place in 6th Birjand University Annual ACM/ICPC

Certifications
– TensorFlow Developer – DeepLearning.AI
– Generative Adversarial Networks Specialization – DeepLearning.AI
– Deep Learning Specialization – DeepLearning.AI

Publications

– **Zakeri, A.**, et al. "SMS3D: 3D Synthetic Mushroom Scenes for Detection and Pose Estimation." *Computers*, 2025.
– **Zakeri, A.**, et al. "M18K: Multi-Purpose Dataset for Mushroom Detection and Monitoring." *Computers*, 2025.
– **Zakeri, A.**, Hedayati, R., et al. "Classification of Jujube Fruit Using Machine Learning." *arXiv*, 2021.
– **Zakeri, A.**, Hassanpour, H. "WhisperNet: Deep Siamese Network for Lip-Based Biometrics." *ICSPIS*, IEEE, 2021.
– **Zakeri, A.**, et al. "WhisperNetV2: SlowFast Siamese Network for Lip-Based Biometrics." *arXiv*, 2024.
– Nguyen, V.D., **Zakeri, A.**, et al. "Tackling Domain Shifts in Person Re-Identification." *CVPR*, 2024.
– Koirala, B., **Zakeri, A.**, et al. "Hybrid Three-Finger Gripper for Automated Mushroom Harvesting." *Actuators*, 2024.
– Koirala, B., **Zakeri, A.**, et al. "Robotic Button Mushroom Harvesting: A Review." *Applied Sciences*, 2024.
– Koirala, B., **Zakeri, A.**, et al. "Compact Hybrid Gripper for White Button Mushroom Harvesting." *ASME IDETC-CIE*, 2024.
– Hosseini, S.A., **Zakeri, A.**, et al. "Enhanced CBIR Using LABP and Color Probabilities." Preprint, 2024.

References
– Dr. Fatima Merchant - fmerchant@uh.edu
– Dr. Driss Benhaddou - dbenhaddou@uh.edu
– Dr. Shishir Shah - sshah@uh.edu