

Ibrahim AbuAlhaol

PhD | PEng | SMIEEE

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Summary

AI Technical Lead (Ph.D., PEng, SMIEEE) with a strong background in applied AI/ML research and product development, bridging industry and academia. Specializes in architecting and benchmarking secure, Knowledge-Graph enabled Agentic AI systems, leveraging multi-modal Generative AI and orchestration. Demonstrates a proven track record building and leading AI teams (e.g., at Dell, Huawei) and providing strategic guidance. Successfully delivered innovative Agentic AI systems addressing critical challenges in Cybersecurity and 5G/6G Networks, focusing on their benchmarking, observability, and performance on Cloud, Edge, and AI-capable PCs. A prolific inventor, contributing to over **36 patents** and dozens of peer-reviewed research articles.

Education

- 2014–2015 **MEng in Technology Innovation Management**, Carleton University, Canada, GPA: 11/12
- 2005–2008 **PhD in Electrical and Computer Engineering**, University of Mississippi, USA, GPA: 4.0/4.0
- 2002–2004 **MSc in Electrical Engineering**, Jordan University of Science & Technology, Jordan, GPA: 84.4/100
- 1995–2000 **BSc in Electrical Engineering**, Jordan University of Science & Technology, Jordan, GPA: 84/100

Employment

- 2022–Present **AI Technical Lead**, Dell Technologies, Ottawa, Canada
Leading GenAI/LLM/KG solutions, AI agent benchmarking, and AIPC automation
- 2020–2022 **Assistant Professor**, Data science, Princess Sumaya University for Technology, Amman, Jordan
- 2019–2020 **Principal Data Scientist**, Huawei Technologies, Ottawa, Canada
AI/ML-driven cybersecurity, anomaly detection, and real-time security analysis
- 2017–2021 **Adjunct Research Professor**, Carleton University, Ottawa, Canada
- 2017–2019 **Senior Data Scientist**, Larus Technologies, Ottawa, Canada
- 2014–2017 **Cybersecurity Research Scientist**, VENUS Cybersecurity Corporation, Ottawa, Canada
- 2009–2014 **Assistant Professor**, Khalifa University of Science & Technology, United Arab Emirates
- 2008–2009 **Wireless System Engineer**, Broadcom Corporation, San Diego, USA

Leadership and Technical Skills

AI Leadership & Strategy | Technical Leadership | Project Management | System Design | Team Building & Supervision | Mentoring & Advising | Artificial Intelligence (AI) | Machine Learning (ML) | Deep Learning (DNN, CNN, RNN) | Reinforcement Learning (RL) | Transfer Learning (TL) | Federated Learning (FL) | Graph Neural Networks (GNN) | Foundational Models & Generative AI (GenAI) | Large Language Models (LLM) Development & Adaptation | Multi-modal AI System Design | AI Agents Orchestration & Benchmarking | Big Data Analytics | Data Engineering | Data Management for AI | Cloud Computing | AI Infrastructure Design | Knowledge Graph (KG) Development | AI for Security | Security for AI | AI Capable PC (AIPC) Design & Optimization

Research Topics

Sovereign AI Solutions | **Large Language Model (LLM) Applications** (e.g., Micro-Ontology Creation, KG Trust Scoring) | **Multi-Modal Generative AI Systems Optimization** | Wireless Communications (e.g., OpenRAN NDT Modeling, Policy Generation, Digital Twin Energy Efficiency) | Data Privacy & Security | AI for Smart Cities | AIPC User Authentication | Wearable Gesture Authentication | GNN for AIPC

1037 Citations 40 Conferences 36 Patents 14 Journals 4 Book Chapters