Muhammed Abdel Hamid Shelleh

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Industry Experience

AbbVie   **Waukegan, Illinois**

AI/ML Engineering Intern   *May 2022 – Aug 2022*

- *Architected* and deployed AI-driven search system using transformer-based models, improving query accuracy by 40% for 200+ users
- *Implemented* full-stack solution using React, Python, and AWS, processing 2TB+ of healthcare data
- *Achieved* 98% accuracy in data migration while maintaining strict healthcare compliance standards

Texas Instruments   **Dallas, Texas**

ML Platform Engineer Intern   *May 2021 – Aug 2021*

- *Developed* predictive analytics platform processing 1TB+ of usage data with 92% accuracy
- *Built* and deployed 10+ ML-powered Splunk dashboards for real-time usage pattern analysis
- *Implemented* distributed data processing pipeline using Python and AWS services

AZZLY   **Vero Beach, Florida**

Psychiatric Software Engineering Intern   *Sep 2018 – Aug 2019*

- *Assisted* in developing HIPAA-compliant EMR system serving 500+ psychiatric healthcare providers
- *Implemented* React-based frontend components, and worked with Azure for backend

Northwestern University IT   **Evanston, Illinois**

Endpoint Technical Support Specialist   *Nov 2022 – Jan 2023*

- *Offered* Endpoint Device Management & troubleshooting at the Rebecca Crown Center. Applied working knowledge of internal systems & devices to solve issues.
- *Managed* technical operations for 500+ end users while maintaining system uptimes.
- *Implemented* support protocols reducing resolution time by 25% across 200+ monthly tickets.

KPMG   **Lake Nona, Florida**

*Deskside Services Advisor **I***   *Jan 2022 – Mar 2022*

- *Supported* 2000+ users with Windows/Mac operating systems & network troubleshooting/repairs, including various Associates, Managers, & Partners throughout the firm, while maintaining system uptimes.
- *Updated* knowledge base for various IT troubleshooting topics, reducing repeat tickets by 25% across organization.

Rayonier Advanced Materials   **Jacksonville, Florida**

IT Applications Programming Analyst   *Jul 2020 – Oct 2020*

- *Maintained* multiple business applications processing 100k+ daily reports, including configuration, code management & programming using Python, cron jobs, SQL & Web reports.
- *Optimized* PowerShell installation queries across various manufacturing systems, reducing response time by 50% and automation by 20%.

Education

University of Central Florida	**Orlando, Florida**
M.S. Computer Science** (GPA: 3.30)* (Research Focus:** Health Informatics*)	*Jan 2020 – Dec 2022*
***B.S. Interdisciplinary Studies** (Minor: Health Sciences)*	*Jan 2017 – Jul 2019*

Technical Skills

Languages: Python, Go, C, JavaScript	**Data:** SQL, Spark, Tableau	**Tools:** JIRA, Splunk, VMware
AI/ML: PyTorch, TensorFlow, LLMs	**Cloud:** AWS, Docker, CI/CD	**Compliance:** HIPAA, NIST CSF

Selected Projects, Publications & Awards

- **Patent Holder for AI/ML Theoretical Architecture for Electronic Health Record System Prediction (Patent #US20240256770A1)**
- *PC-LSTM: Ontology-based Healthcare Analysis (Published in IEEE Journal in 2023)*
- *NSF Grant #2128684 Recipient for AI Research*
- *MADI: ML System for Healthcare Data (Published in IEEE Journal in 2022)*
- *UCF Research Excellence Award 2019*

AI/Theory Research & Teaching

Systems Researcher | University of Illinois Chicago   **Jan 2023 – Dec 2024**

- Developed formal verification systems using Coq/VST, reducing verification time by 30%
- Created instructional materials for 250+ students in Machine Organization course

Healthcare AI Researcher | University of Central Florida   **May 2021 – Dec 2022**

- Architected MADI system analyzing 44M+ patient records with 90% prediction accuracy
- Published multiple IEEE papers on transformer-based healthcare AI applications