Muhammed Abdel Hamid Shelleh

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Education

University of Illinois at Chicago — **Chicago, IL**
Computer Science, PhD — Jan 2023–Dec 2024
Coursework: Object Oriented Languages & Environments, Programming Languages Design, Data Visualization
Activities & Societies: ACM, Muslim Student Association, IEEE

University of Central Florida — **Orlando, FL**
Computer Science, MS — Jan 2020–Dec 2021
Coursework: Mixed Reality (VR/AR) Engineering, Machine Learning, Human-Computer Interaction Research Methods
Activities & Societies: Student Government, Faculty Senate, Muslim Student Association, IEEE

Professional Experience

Northwestern University IT — **Evanston, IL**
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.

AbbVie — **Waukegan, IL**
Regulatory Affairs (Chemistry, Manufacturing & Controls) Intern — May 2022–Aug 2022
– **Assisted** with new & existing Knowledge Management/Regulatory Intelligence tools & databases, including the department SharePoint re-design & implementing an AI system for internal searches.

Texas Instruments — **Dallas, TX**
IT Analyst Intern — May 2021–Aug 2021
– **Executed** robust test plans to cover all phases of testing including unit, integration, & user acceptance tests.

Rayonier Advanced Materials — **Jacksonville, FL**
IT Applications Programming Analyst — Jul 2020–Oct 2020
– **Maintained** business systems including configuration, code management & programming using Python, cron jobs, SQL & Web reports. Wrote & edited several PowerShell scripts to automate & reduce installation times by about 20%.

Research Experience

UIC Verification & Semantics Lab — **Chicago, IL**
Researcher under Dr. William Mansky — Jan 2023–Present
– **Reviewed** & wrote proofs for various algorithms in the C programming language using Coq, VST, & Iris.

UCF Institute for Simulation & Training — **Orlando, FL**
Graduate Researcher under Dr. Roger Azevedo — May 2022–Aug 2022
– **Developed** & documented a new system & algorithm for sentiment analysis in telehealth systems, funded by the National Science Foundation under NSF Grant 2128684.

Publications

– **Shelleh M**, Gurupur VP. PC-LSTM: Ontology-based Long Short-Term Memory State Model for Data Incompleteness Prediction. In2022 44th Annual International Conference of the IEEE Engineering in Medicine Biology Society (EMBC) 2022 Jul 11 (pp. 2606-2610). IEEE.
– Gurupur VP, **Shelleh M**. Machine learning analysis for data incompleteness (madi): Analyzing the data completeness of patient records using a random variable approach to predict the incompleteness of electronic health records. IEEE Access. 2021 Jul 6;9:95994-6001.
– Gurupur VP, Abedin P, Hooshmand S, **Shelleh M**. Analyzing the Data Completeness of Patients' Records Using a Random Variable Approach to Predict the Incompleteness of Electronic Health Records. Applied Sciences. 2022 Oct 24;12(21):10746.

Teaching Experience

UCF CS (COP 3402/3502C) — **Orlando, FL**
Graduate Teaching Assistant — Oct 2020–Dec 2022
– **Managed** live programming sessions in C to teach students topics relevant to compilers, linkers, & loaders.
– Graded assignments & held office/lab hours to provide feedback to students, reducing teaching overhead.

Skills

Languages: Python, Java, C, R, SQL, LaTeX, OCaml
Libraries: Numpy/Pandas, PyTorch/Tensorflow, Dash/Shiny, BERT, Selenium/BeautifulSoup
Tools: Git/Terminal, JIRA, Azure/AWS, WordPress, Electron, Splunk