YOUSSEF SHETA

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# PROFESSIONAL SUMMARY

Ph.D. candidate in Computer Science with strong hands-on experience in machine learning, data science, and software engineering. Proven ability to build and deploy scalable AI models, optimize data pipelines, and develop full-stack software solutions. Demonstrated success in applying research to real-world problems, especially in healthcare and cloud-based systems. Effective communicator and collaborator with a passion for translating data into impactful technology products.

# TECHNICAL SKILLS

- Programming Languages: Python, C++, C#, Swift, HTML  
- Machine Learning: TensorFlow, scikit-learn, predictive modeling, deep learning, data mining  
- Databases: MySQL\SQL Servers  
- Cloud & DevOps: IBM Cloud, CI/CD, Slack integration, deployment automation  
- Development Tools: Git, Jupyter, Unity, VS Code  
- Software Engineering: iOS development, mobile game dev, UI/UX design, debugging, optimization

# EDUCATION

Ph.D. in Computer Science (Current – expected to graduate in December 2026)  
University of Louisville, KY | ABD  
Focus: Machine Learning, Healthcare AI

M.S. in Computer Science  
University of Louisville, KY

Capstone: Motion Tracking for Physiotherapy with OptiTrack

Certificate in Data Science

University of Louisville, KY

B.S. in Computer Engineering  
American University in Cairo, Egypt

# PROJECT & RESEARCH EXPERIENCE

Portfolio link: [https://YoussefSheta22.github.io](https://youssefsheta22.github.io/)

* Developed machine learning models for clinical prediction, sentiment analysis, and motion tracking.
* Worked with technologies such as Python, Scikit-learn, TensorFlow, SQL, Java, iOS (Swift), and Unity.
* Projects include early sepsis detection, Amazon review sentiment classification, and mobile/web apps.

# PROFESSIONAL EXPERIENCE

Graduate Teaching Assistant  
University of Louisville | Sept 2022 – Present

- Delivered instruction for core CS courses in algorithms, software engineering, and discrete math.  
- Led coding labs and created online resources to support hybrid learning.  
- Mentored 100+ students in software development best practices and debugging strategies.

Software Development Intern  
Alexandria Business Association (ABA), Egypt | Jun 2019 – Aug 2019

- Designed backend modules in C++ for financial transaction systems across 26 branches.  
- Optimized MySQL queries and database layers to enhance system performance.  
- Contributed to testing, debugging, and deployment phases within a production environment.

Cloud Advocate Intern  
IBM, Cairo, Egypt | Jun 2018 – Aug 2018

- Built cloud-native apps and automated deployment workflows on IBM Cloud.  
- Implemented Slack-based monitoring alerts to enhance DevOps efficiency.  
- Collaborated with engineering teams on infrastructure and feature delivery.

# SOFT SKILLS & STRENGTHS

- Strong problem-solving and analytical thinking  
- Excellent communication and technical writing  
- Team player with leadership experience  
- Agile and collaborative mindset  
- Fast learner with cross-domain adaptability