

# 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>

- 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