

Mohammed Mamdouh

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EDUCATION

University of Central Florida/Burnett Honors College May 2026
Bachelors of Science in Computer Science 3.7 GPA
Relevant Coursework: Data Structures and Algorithms II, Software Engineering, Linear Algebra, Stats II, Calc II

TECHNICAL SKILLS

Languages: Python, Java, C/C++, JavaScript, TypeScript, SQL, Go, C#
Libraries/Tools: Numpy, Pandas, Keras, Tensorflow, PyTorch, Scikit-Learn, Seaborn, Librosa, Matplotlib, Git, Linux
Technologies: Docker, AWS, PostgreSQL, Node.js, Express.js, Flask, Vercel, Prisma, MongoDB, GraphQL

WORK EXPERIENCE

Incoming AI Engineer Intern May 2025 – Aug. 2025
Universal Creative Orlando, FL

Research Assistant Feb. 2025 – Present
UCF FData Lab Orlando, FL

- Researched **Graph Neural Networks (GNNs), Graph Convolutional Networks (GCNs), and Large Language Models (LLMs)** for machine learning on static and temporal graphs.
- Developed models for **node classification, link prediction, and graph-based knowledge** extraction given dynamic graph settings

AI Software Developer Intern Jul. 2024 – Present
Resilience, Inc Remote

- Developed a **Speech and Emotion recognition AI** model to assist K-12 students with mental health learning and understanding
- Increased **model accuracy** by **45%** through **data augmentation**, batch normalization, weight adjustment, and audio centered **feature extraction**
- Collaborated to combine new additions to the model and effectively run tests through simulated data and various acted out datasets

Digital Summer Instructor/Tutor May 2024 – Aug. 2024
iD Tech California

- Mentored students on game, chatbot, terminal, and AI project development
- Tutored **30+ kids** aged 9-17 on **programming fundamentals** and **AI/ML concepts**
- Helped redesign and **improve** various **AI course** plans to match modern frameworks and technologies such as **PyTorch and Pandas**

PROJECTS

Simply-ASL | *PyTorch, Flask, Swift, OpenCV*

- Engineered a **Speech to ASL** mobile app using **inference and computer vision**
- Created an **LSTM model** for **intermediate frame generation** using PyTorch
- Processed and created a dataset for real time **2D pose estimation** using inference with **Meta's Sapien model**

CAMPUS INVOLVEMENT

Hackathon Organizer & Project Launch Mentor Dec. 2024 – Present
Knight Hacks Orlando, FL

- Coordinating and running Knight Hacks (a **600+ attendee** annual hackathon at UCF) with a **20+ person team** to handle logistics, sponsorships, advertising, and event planning.
- Mentoring teams in the **Project Launch** program, guiding **20+ AI/ML and Web Development projects** from debugging to implementation.

ACM Website Backend | *NodeJS, Express.js, MongoDB, Javascript, HTML* Jan 2024 – April 2024

- Worked with a large team to develop a backend for ACM's main website
- Created a **CRUD** system to store club events to be used internally and display on the main website
- Implemented a **fully authenticated panel** allowing for a centralized center for club duties improving club efficiency