

Tala Chehade

Lebanon | (+961) 76308830 | talachehade04@gmail.com | www.linkedin.com/in/tala-chehade-a1554028b

Objective

First-year M.S. Computer Engineering student seeking a required Summer internship to gain hands-on experience and apply software and hardware engineering skills.

Education

M.S. in Computer Engineering | University of Balamand | 2025–Present (Expected Graduation: Spring 2027)

B.S. in Computer Engineering | University of Balamand | 2022–2025

GPA: 3.9/ 4

Dean's Honor List: Fall 2022–Spring 2025

Lebanese Baccalaureate – General Science | Rawdat Al Fayhaa Secondary School | 2022

Internship Experience

RESEARCH ASSISTANT: UNIVERSITY OF BALAMAND | OCTOBER 2025-CURRENT

- Developed a Type-2 fuzzy set-based multi-label classification model to handle uncertainty in complex datasets.
- Conducted model experimentation and hyperparameter tuning to optimize testing accuracy.
- Applied fuzzy logic-based clustering to improve feature representation and label correlation.

INTERNSHIP: PARTNER FOR CHANGE | NOVEMBER-DECEMBER 2025 | KOURA, LEBANON

- Programmed a robotic arm system using Python, Computer Vision, and AI algorithms to perform advanced automated tasks like dynamic object detection and gesture tracking.
- Developed renewable energy prototypes (solar, wind, hydraulic) using Arduino.

Projects

MYOPIA RISK DETECTION SYSTEM USING DEEP LEARNING

- Designed a CNN-LSTM-based system to assess myopia risk using eye behavior indicators (squinting, blinking, screen proximity, frequent zooming and rubbing eyes).
- Generated risk reports and behavioral alerts to promote healthy visual habits.

SMART GLASSES FOR DEMENTIA PATIENTS AND ELDERLY

- Developed smart glasses using Raspberry Pi and multiple sensors for face recognition, object detection, fall monitoring, and location tracking.
- Guided patients using auditory navigation in case lost and provided medication reminders.
- Built a caregiver mobile application and integrated alert transmission via ThingSpeak.

Skills & Abilities

- Java, Python, C++, Assembly, C, SQL, OOP
- OpenCV, scikit-learn, YOLOv8, PyTorch, TensorFlow
- MATLAB, Ladder, Data Structure, Ubuntu
- Microsoft Access, MariaDB
- Arabic
- English
- French