Hasan Moughnieh

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CAREER SUMMARY

AI enthusiast with an academic foundation in Electronics and Communication Engineering, eager to apply machine learning knowledge to practical AI challenges. Seeking a full-time role to innovate and drive impact in the AI industry through dedicated research and continuous skill advancement.

WORK EXPERIENCE

GEOspatial Artificial Intelligence Group ([GEOAI](#))   **Mar 2023 - Current**
Computer Vision Researcher   Beirut , Lebanon
- Continuously investigated Meta's Segment Anything Model (SAM) .
- Integrated a pre-trained CNN as a prompt generator into SAM, enhancing its performance.
- Co-created a Awesome Vision-Language for RS ([VLM4EO](#)) Github repository.
- Demonstrated SAM in the 5th NOAA Workshop on Leveraging AI in Environmental Sciences and in "Embracing AI in Geospatial Field" webinar series.
- Continuous Exploration for techniques to adapt foundation models for Geo-Spatial applications.

Ogero   **June 2022 - Aug 2022**
Telecommunication Intern   Saida , Lebanon
- Hands-on experience with cabling, fault detection, testing, and Ogero's cabling system architecture.
- Enhanced knowledge of router configuration, ADSL, DSL, Smart City, Home Automation, and IoT concepts.

TECHNICAL PROJECTS

Zero-Shot Refinement of Buildings' Segmentation Models using SAM - GEOAI
- Investigate various single and composite prompt strategies on SAM using Remote Sensing data.
- Experiment with two CNN models as prompt generators to SAM to get more accurate instance segmentation masks.
- Resulted in a [research paper](#) submitted to the "The 5th International Electronic Conference on Remote Sensing"

Compact Dual Band Branch Line Coupler For Wireless Applications - Final Year Project
- Developed a Compact Dual Band Branch Line Coupler operating at WiFi frequencies, addressing challenges in modern communication system design.
- Collaborated with a team of four members and two supervisors.
- Resulted in a [research paper](#) published in IEEE MISTA-2023.

EDUCATION

Beirut Arab University   **Graduated: Dec 2022**
Bachelor of Electronics and Communications Engineering (GPA: 3.87)
Organizations/Awards: Dean's Honors List, Member of BAU IEEE society

CERTIFICATIONS

Deep Learning Specialization | DeepLearning.AI on Coursera   **Achieved Feb 2023**
DeepLearning.AI TensorFlow Developer Specialization| DeepLearning.AI on Coursera   **Achieved May 2023**
Generative Deep Learning with TensorFlow | DeepLearning.AI on Coursera   **Achieved Oct 2023**

SKILLS

Technical Skills

● Python (Proficient)	● TensorFlow	● AI / ML / DL
● SQL (intermediate)	● Pytorch	● Matlab

Interpersonal Skills

● Research	● Multi-Task	● Time Management
● Problem Solving	● Communication	● Project Management