Ali Abdallah

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Education

Lebanese University, Faculty of Engineering, Beirut   **2021 – Present**

Diploma in Electrical and Telecommunication Engineering

Experience

Software Engineer intern at White Stork   **SEP 2024 – PRESENT**

- Learned Rust and used it to develop a data ingestion and indexing solution similar to Rockset.
- Conducted extensive research on Rockset's implementation and applied similar techniques.
- Developed code to deploy nodes with compute separation for efficient read/write performance.
- Utilized AWS for cloud deployment.
- Completed the AWS Cloud Practitioner certification and currently preparing for the AWS Certified Data Analytics – Specialty exam.

Machine Learning Engineer intern at GEOAI   **JUL 2024 – SEP 2024**

- Gained proficiency in PyTorch for model training and implementation as well as data augmentation
- Learned Docker for containerization and environment management
- Applied different methods to analyze SAR images to detect damaged building

Projects

Ecommerce Website

- **Backend**: Express JS; **Frontend**: React JS
- Implemented JWT-based user authentication for secure authorization and data protection
- Managed data storage using MongoDB, hosted on Atlas
- Integrated Stripe for payment processing to ensure secure and seamless transactions

Drone Detection AI Model using YOLOv8

- Fine-tuned YOLOv8 for drone detection, evaluating various model sizes for inference speed and performance
- Leveraged cloud-based GPU resources to accelerate AI model training, increasing training speed
- Made a custom drone dataset, mixing own photos with online images
- Created a small hardware device using two servo motors and a laser to track nearby drones when detected

Social Media Desktop App

- Developed a social media app allowing users to create accounts, post tweets, save, like, comment on posts, and manage friendships, using C# and MySQL

Skills

- Languages: Python, Rust, C, C++, JavaScript, C#, HTML, CSS
- Technologies: MySQl, MongoDB, Linux, Docker, Git, NodeJs, ReactJs
- Machine Learning: PyTorch, Pandas, Numpy

Certificates

- **Machine Learning:** Machine Learning Specialization, Deep Learning Specialization
- **Networking:** CCNA I, CCNA II, CCNA III (On the way)
- **Cloud:** AWS Cloud Practitioner, Data Engineer (On the way)