

Ahmad Droobi

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Education

An-Najah National University, Palestine B.S. in Computer Engineering Aug 2018 - Dec 2022
• Top 5% | Palestine Presidential Scholarship | United Holy Land Fund Scholarship & Alumni Representative

Professional Experience

Python Backend Engineer Feb 2022 - Jan 2023
Harri New York and Ramallah

- Serving the backend team for Harri, a global leader in frontline employee experience, worked on time series and forecasting projects to predict hiring needs for restaurants and retailers
- Coordinated with data team to create a pipeline for client data, using time series forecasting algorithms; built backend system with **Django**; created bridge between backend and data science team
- Worked in R&D of new and customized algorithms and backend solutions to create an employee forecasting product used by 20 clients, which reached hourly prediction intervals; included embedded features for employer clients such as location, type of business, and original data from the last 10 years

Undergraduate Researcher Sep 2022 - Jan 2023
Equitech Futures Chicago, Illinois

- Applied machine learning techniques to real-world datasets such as predictive algorithms for climate forecasting and wind speed prediction, and gained experience in applied artificial intelligence
- Developed proficiency in **Python** through participation in Coding Gym sessions
- Conducted independent research and team projects; presented climate forecasting research findings and wrote reports, effectively communicating technical information to a diverse audience
- Collaborated with peers and mentors to design experiments and analyzed and validated results for weather datasets, through Kaggle and other lab results

Undergraduate Researcher Oct 2021 - May 2022
Future Computing Technologies Lab, Clemson University South Carolina, USA

- As part of the research team, worked on real-time emotion recognition using deep learning with Google Colab, **Tensorflow**, **OpenCV**, and **Dlib** to contribute to the success of this approach in recognizing emotions
- Introduced deep learning techniques (CNN, DNN, and other multimodal methods), to accelerate recognition accuracy; demonstrated general architectural model for building a recognition system with deep learning
- Aimed to analyze pre- and post-processes involved in the model's methodology; conducted extensive work on image and video as input (Real-Time System) to recognize the emotion
- Benchmarked different performance parameters in different research to show this sphere's progress
- Carried out the experimental observation on the Kaggle dataset involving seven emotions, which yielded 97% accuracy in the training set and 57.4% accuracy when applying the Haar cascade technique

SWE Intern May 2021 - Oct 2021
Apple Inc. Herzliya, Israel

- As part of the backend development, supported a data stream interface project, building an internal employee system that managed inventories and labs, part of the company's critical supply chain process.
- Implemented and iterated retrieve/update information using Django and **React**

Special Project

Graduation Project: CookOverflow - Your Ingredients, Our Recipes Dec 2021 - May 2022

- Created a search engine that recommended top recipes based on user's ingredient input
- Built platform and infrastructure from scratch using **JavaScript**, **CSS**, and **HTML5** for frontend, Django and Python for backend and **PostgreSQL** for the database, earning best grad project for 2022
- Used JSON files to synchronize websites, Spicy and NLP for text processing, along with d TF-IDF Modeling for tokenizing, and RNNs and Query Algo to rank and retrieve the recipes from the database
- Created data pipelines deployed in microservices architecture which enabled users to post, comment, like, follow, and be notified of interactions and recipe sharing

Technical Skills

Programming Languages: Python, C++, Java, JavaScript, HTML/CSS, JavaScript, PHP, and Latex
Frameworks and Libraries: Django, Flask, React, PostgreSQL, Tensorflow, OpenCV, Dlib

Achievements and Honors

Palestine Ministry of Education, Tawjihi College Entrance Exams: 1st place among 72,000 students
The Hebba & Ishaq Sadaqah Foundation: scholarship for talented students at Palestinian Universities
PCPC Palestinian Collegiate Programming Contest: 23rd place (problem solving with Python, C++)