Youssef Hegab

949-742-9423 | youssef.hegab@gmail.com | linkedin.com/in/yhegab | github.com/yhegab

Technical Skills

Programming Languages: Python, Java, C++, php, C#, SQL, R, Javascript, HTML, React
Applications and Frameworks: Salesforce, Matlab, Excel, GoDaddy, GCP, Jupiter Notebooks, Azure, Power BI
Packages: Tensorflow, Keras, Numpy, Matplot, Pandas, Selenium,

Work History

Network Technology Engineering Intern May 2022 – August 2022
T-Mobile *Bellevue, Washington*

- Constructed dashboards using Power BI for T-Mobile NPPI team of over 200 data engineers and software engineers
- Engineered data pathways for T-Mobile's national development databases, handling millions of rows per second
- Innovated optimization techniques and algorithms for network payload machine learning forecasting
- Presented and communicated findings to senior directors, managers, and members of technical staff

Web Developer/Data Science Intern January 2022 – April 2022
The CommonsXR *San Diego, California*

- Revamped and redesigned CommonsXR back end using php
- Transitioned database from Firebase to Azure's platform in order to improve educational services
- Innovated, designed, and prototyped a security mapping tool to protect student confidentiality

Full-stack Developer/Project Head November 2021 – June 2022
Camp Izza Inc. *Irvine, California*

- Utilized php, JavaScript, React, Java, and MySQL to implement bug fixes and redesign the outdated website, improving the client experience of over 200 users
- Led and managed a capstone team of software engineers and UX designers from UCI to improve website design and security
- Communicated with company owner, employees, and clients on specific website fixes

MLAT Research Assistant September 2021 – Present
Chapman University *Orange, California*

- Researched the viability of neural networks on vibration analysis with Dr. Yuxin Wen
- Implemented algorithms in R and Python in order to analyze the open source vibration sensor data to determine remaining useful life of the machines

Projects

Spotify Recomendation App: Built a command line app that generates recommended playlists, utilizing Python, Spotify API, Pandas, and SQL. Implemented a genetic algorithm from scratch for playlist construction
Project Link: https://github.com/yhegab/spotify_reccomendation_app

Education

Chapman University Orange, California
Bachelors of Science, BS, Computer Science, Mathematics Minor *Graduation May 2022*

- GPA: 3.6, Cum Laude
- **Notable Courses:** Artificial Intelligence, Data Structures, Probability Theory, Numerical Analysis

Chapman University Orange, California
Masters of Science, MS, Computational and Data Science *Expected Graduation May 2023*

- GPA: 4.0
- **Notable Courses:** Machine Learning, Computational Economics, Time Series Analysis