Yazeed Omer Eldigair

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Education

Abu Dhabi University — Abu Dhabi, UAE
BS in Computer Engineering *GPA: 3.93/4.00* — September 2016 - June 2020

Experience

Tasweiq LIMITED — Abu Dhabi, UAE
Software Engineer — Jan 2021 - February 2022

- Transformed UI design of the MVP using React by writing stable and reusable components.
- Collaborated with an agile team of 4, and helped prioritize features to ensure that the biggest impact features were worked on first.
- Developed web scrapping tools that increased time efficiency of tedious data collection tasks by 300%.
- Built RESTful APIs using NodeJS to handle the JavaScript front-end and stored data efficiently in a PostgreSQL database.
- Managed and carried out daily reviews of the MVP UI design done in Figma.

Tasweiq LIMITED — Abu Dhabi, UAE
Software Architect — June 2020 - Jan 2021

- Architected entity-relationship diagrams for a customers database and a merchants database.
- Expanded the main databases by 260% and exported the data after cleaning it from Excel to MySQL.
- Constructed an RFP project document detailing the desired microservices architecture of the web app.

Skills

Technologies: HTML5, CSS3, Bootstrap, Python, JavaScript (ES6+), PHP, React, Node, Express, PostgreSQL, MySQL, RESTful APIs, Chrome Development, Git/Github, MATLAB, Linux
Languages: English (Fluent), Arabic (Native)

Projects

Face Detection Web App | Website | Github
A full-stack single-page application that utilizes machine learning to detect faces in images. Built frontend with React and backend with Node & Express. Set up a REST API for backend routing, user registration and authentication, and database management. Deployed frontend, backend and PostgreSQL database on Heroku.

Reacher - AI Based Teacher Assistant Robot | Presentation
A robot that mimics the tasks of a teacher's assistant in a contactless manner. Built with a ROS framework that utilizes SLAM for mapping environments and Dijkstra's algorithm to navigate them, Python's Porcupine engine for voice activation, Google's DialogflowCX for natural language processing, Python's WebScokets API for UI and backend routing, a Python-based facial recognition algorithm paired with a recommendation engine for providing personalized media content, and a CNN with multiple LSTM networks for cheating detection.

LinkedIn Profile Scraper | Github
A Google Chrome extension that extracts information from LinkedIn profiles to an Excel document. Built with VanillaJS and integrated with a Node server that uses SheetJS for exporting the data.

Publications & Awards

Towards Contactless Learning Activities during Pandemics Using Autonomous Service Robots
Multidisciplinary Digital Publishing Institute (MDPI)
Publication can be viewed *here*. — November 2021

IT & Computer Engineering Undergraduate Research Competition 2020
Abu Dhabi University (ADU)
Won first place in the competition that spanned the entire GCC & MENA regions. — June 2020

EGA's Industrial Robots Competition 2020
Emirates Global Aluminium (EGA)
Worked with a team of engineers to build a $20,000 industrial autonomous AI drone. — Jan 2020

NASA Space Apps in Abu Dhabi 2020
UAE Astropreneur Team, Abu Dhabi Space Apps
Won first place in the local NASA Space Apps team-based hackathon. — April 2020