

YAHYA YUSUF

Software Engineer | St. Cloud, Minnesota

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Education

United Arab Emirates University

Expected: May 2022

Bachelor of Science in Mathematics, Minor in Information Technology; CGPA: 3.82/4.0

Al Ain, UAE

Relevant Courses: Algorithms & Problem Solving, Data Structures, Object-Oriented Programming, Database Systems, Internet Computing, Operating Systems Fundamentals.

Technical Skills

Programming Languages: Python, Java, JavaScript, C++

Frameworks & Libraries: React, NodeJS, ExpressJS, Django, Numpy

Technologies & Databases: Ubuntu, REST API, Git, MySQL, MongoDB

Experience

Software Engineering Intern

Mar 2022 – Present

National Space Science and Technology Center

Al Ain, UAE

- Working as part of the Command & Data Handling Software team
- Integrating satellite tracking algorithms to coordinate communication between the satellite and the ground station

Research Assistant

Nov 2021 – Mar 2022

United Arab Emirates University

Al Ain, UAE

- Led a team of 4 students in developing an Agent-based model to study the impact of mobility during an epidemic
- Refactored code base through reusing components to enhance development leading to 60% faster runtime
- Collaborated with team members in publicizing the model through presenting posters in conferences and other events

Research Assistant

Apr 2019 – Mar 2020

United Arab Emirates University

Al Ain, UAE

- Assisted in implementing the Black-Scholes Equations for predicting the future price of cryptocurrencies
- Introduced an API pipeline to automate data fetching & processing, saving up to 80% of production time
- Amplified model reach by designing and developing a Django web application leading to higher accessibility of the model
- Illustrated the results of the model by assisting in designing and presenting a poster at an annual scientific conference

Peer Advisor

Jan 2018 – Jun 2020

United Arab Emirates University

Al Ain, UAE


- Advised and helped students in registering their courses during the first week of the semester
- Collaborated with proctors and team members in coordinating students' movement during the EMSAT exam period

Projects

Sessions  | *React, NodeJS, WebRTC, Socket.io*

Mar 2022

- Developed an educational portal with video conferencing capabilities using React and NodeJS to enhance student experience
- Implemented the WebRTC protocol through the JavaScript library PeerJS for video and audio communication to create multi-peer video communication
- Created a user authentication system that allow users to secure their content
- Utilized Socket.io to create a reliable communication channel between client and server to signal WebRTC connection

PyStock  | *Python, Django*

Jan 2020

- Created a full-stack web application using Django to streamline usage of the cryptocurrency prediction model
- Processed user-inputted information in the back-end of the app to return the predicted future of price of the given asset
- Extended the model to predict other financial assets such as stocks and fiat currencies

TradeCase  | *Java, JFrame*

Nov 2019

- Developed a prototype marketplace for cars and houses with a user interface that enables vendors to advertise their products