

YAHYA YUSUF

Software Engineer | St. Cloud, Minnesota

✉ yahyayusufswe@gmail.com  [linkedin.com/in/yahyayusuf](https://www.linkedin.com/in/yahyayusuf)  github.com/brandtall

Education

United Arab Emirates University

May 2022

Bachelor of Science in Mathematics, Minor in Information Technology

CGPA: 3.82/4.0

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++, Bash, SQL

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

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

Experience

Software Engineering Intern

Mar 2022 – May 2022

National Space Science and Technology Center

Al Ain, UAE

- Worked as part of the Command & Data Handling Software team
- Analyzed satellite tracking algorithm software requirements and designed a solution that satisfied all the requirements
- Integrated satellite tracking algorithms to coordinate communication between the satellite and the ground station
- Created an API that reshapes user given input into the necessary form allowing for flexibility and ease-of-use

Research Assistant

Nov 2021 – Mar 2022

United Arab Emirates University

Al Ain, UAE

- Worked as part of an undergraduate research team under the UN Sustainability Development Goals research grant
- 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 at conferences and other events

Research Assistant

Apr 2019 – Mar 2020

United Arab Emirates University

Al Ain, UAE

- Worked as part of an undergraduate research team under the Summer Undergraduate Research Experience program
- 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
- 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

- Worked as part of the Student Academic Success Program
- 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