AHMED HAMED ALY

3rd year Computer Science @ Trinity College Dublin

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EDUCATION

Integrated Computer Science
Trinity College Dublin

📅 SEP 2018 – JUN 2022   Grade: 1.1 (first)

Creative Thinking and Entrepreneurship
Trinity College Dublin

📅 SEP 2019 – JUN 2020   Grade: 2.1 (Upper Second)

EXPERIENCE

Software Engineer
Freelancer.com

📅 JUL 2020 – OCT 2020   📍 Dublin, Ireland

- Used an EmonPi to develop a monitoring device for Energy consumption in a wire with goals to expand it to home energy consumption.
- Worked with a client to develop their proof-of-concept prototype.

Assistant Instructor
Python Software Foundation

📅 FEB 2020 – APR 2020   📍 Dublin, Ireland

- Assisted with instructing a class of 20 people about Pythons infamous statistics and data analysis library, pandas.
- Managed my time helping people and debugging code that I didn't write.

Software Developer
Trinity College Dublin

📅 NOV 2019 – FEB 2020   📍 Dublin, Ireland

- Developed a data analysis program that determines the overall shape and structural transitions of biological macromolecules in solution through a small-angle x-ray scattering (SAXS).
- Assisted with a research publication with Dr. Martin Caffrey.

PROJECTS

Hacker News Application

📅 MAR 2019 – MAY 2019

- A Data Utilisation of the social news website "Hacker News" which is put together and coded in Processing from a JSon data-set of over 14 million entries.
- Worked as part of a group to develop an application over the course of 6 weeks, project can be found on my github.
- Achieved the best programming project award by scoring 95% overall.

Dublin Bus real-time bot

📅 DEC 2019

- Developed a Facebook messenger bot that allows you to search for your bus times with your stop number.
- Still active and remains to provide a reliable service for users to use everyday. Can be found on messenger by searching for 'dublinbusrealtimebot'.

Home Energy Monitor

📅 June 2020 – August 2020

- Used an EmonPi to develop a monitoring device for Energy consumption in a wire with goals to expand it to home energy consumption.

PROGRAMMING LANGUAGES

Python | Java | C | Dart | Javascript
ARM Assembly | HTML | CSS

ACHIEVEMENTS

Class Representative
Computer Science class rep

📅 SEP 2018 – JUN 2019

DUCSS Committee Member
Officer of the Computer Science society

📅 SEP 2019 – MAY 2020

First Place Programming Project
Best first year project (95% overall)

📅 JAN 2019 – MAY 2019

Book Prize JF & SF
Achieved overall 1.1 (first)

📅 2018 – 2020

Top 10 in Hashcode 2020 (Trinity)
Google hackathon competition

📅 FEB 2020

COURSEWORK

- Algorithms & Data Structures
- Concurrency and Operating Systems
- Discrete Mathematics
- Telecommunications 1 and 2
- Computer Architecture
- Microprocessor Systems
- Information Management
- Systems Programming

EXTRA-CURRICULAR

- President of Arabesque Society
- Boxing
- Archery
- Member of Netsoc
- Swimming