

FAWAZ AHMED

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(972) – 589 – 6307

PROFESSIONAL EXPERIENCE

Software Engineer Part-Time University of Texas at Dallas Oct. 2019 - May 2022

- Lead engineer in creating a system which processed 100k+ tweets real time and historically to identify location and severity of road traffic incidents. Government agency, National Institute of Health, sponsored the project to respond to reduce burdens of road traffic accident. ([github](#))
- First authored paper that appeared in the top journal in IEEE and in the 2021 IEEE Fourth International Conference on Artificial Intelligence and Knowledge Engineering ([paper](#))
- Stored data on MongoDB, analysis with Elasticsearch/Kibana, and ML using Stanford NLP.
- Extended work to analyze Covid-19 outbreaks and inform the local governments its locations.
- Used RoBERTA NLP model to identify and extract new mitigation techniques for security attacks from various journals, articles, and websites ([github](#))

Software Engineer Intern Quatronics Spring 2022

- (NDA) Researched, created, and worked with a team of 5 on an ML algorithm that can control a user's thermostat in a way that is personalized and saves money for the consumer ([poster](#))
- Created an algorithm that simulates an HVAC system's decisions given weather conditions

Software Tester Intern DeepIQ Summer 2021

- Tested DeepIQ's product "DataStudio" for bugs before its release
- Implemented testing scenarios and cases to simulate consumer actions

EDUCATION

University of Texas at Dallas

BS, Computer Science

Fall 2019 - Spring 2022

Classes: AI, ML, Algorithm Design, Data Structures and Algorithms, Computer Graphics, Database Systems, Automata Theory

TECHNICAL SKILLS

Languages/Databases: Python, C++, C, C#, Java, MIPS, LaTeX, Perl, Bash, MongoDB, Microsoft Azure, MySQL, Racket, Prolog, RESTful, AWS

Software: Twitter API, Putty, Kibana, Elasticsearch, WSL, Android Studio, Unity, Git

PROJECTS

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- **Pacman AI (2022):** Created and designed an AI for the game Pacman CTF that ranked top 10 in a class of 70+ teams ([github](#), [paper](#))
 - **SuperFood (2019):** Created and designed Android app that allows companies and people to donate using AdobeXD ([wireframe](#)) and developed the functioning app using Android Studio in Java ([github](#))
 - **3D Tetris Game (2021):** Led a team of 3 to create and design a 3D Tetris game using Unity that is playable on Windows PCs ([github](#), [build](#))
 - **Political Tweet Mapper (2022):** Created two ML models for a research project, one that can identify if a tweet is political or not, and the other that can identify the political leaning of the tweet ([github](#), [paper](#))
 - **Snake Game (2021):** Created a Snake Game from scratch in Python3 using the Pygame Module ([github](#))

EXTRACURRICULAR EXPERIENCE

Varsity Esports Athlete University of Texas at Dallas Fall 2020 – Spring 2022

- Ranked top 6 in the game "Overwatch" at the national level two years in a row ([article](#))
- Southern Conference Champions in NACE – 2022
- Second Place in Boston Tournament ([article](#))
- Adapted and played a variety of different roles for the team