# ABDULAZIZ AL-DALAAN

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# PROFESSIONAL EXPERIENCE

## Teacher's Assistant - Introduction to Computer Programming Washington State University

August 2022 - December 2023

- Educated students in aspects such as elementary algorithmic problem solving, computational models, parameterized procedures and more in the **Python** Programming Language.
- Managed Weekly Labs and office hours to provide further assistance.
- Assisted in the **grading** of both assignments and exams.

### **EDUCATION**

**Washington State University** 

Bachelor of Science, Computer Science

**Clark College** 

Transferred with General Requirements

August 2019 - December 2023

GPA: 3.95

**September 2018 - June 2019** 

GPA: 3.56

## **PROJECTS**

#### **Cougar Research Application Portal**

Repo: https://github.com/AbdulAzizAl-Dalaan/Cougar-Research-Application-Portal

- An application portal created to allow Washington State University Professors to publish and manage research positions for both undergraduate and graduate students.
- Professor Users can perform CRUD operations such as creating, editing, and deleting research
  positions. While Students users are able to perform the action of apply for said positions while inputting
  relevant experience information.
- · Created in Python with Flask, and SQLAlchemy

#### **Linux EXT2 File System**

**Repo:** https://github.com/AbdulAzizAl-Dalaan/ext2-file-system

- An Filesystem emulator that is fully compatible with the **Linux** EXT2 Filesystem
- Implement various Linux commands such as Is, cd, mkdir, rm, pwd, and more. This also includes file I/O commands such as open, close, cat, and more.
- · Created in C

#### NFL Prediction Analysis/Algorithm

Repo: https://github.com/AbdulAzizAl-Dalaan/NFL-Prediction-Algorithm

- A program which utilizes NFL team season data from 2012-2021 to identify key statistics which leads a
  team to the most wins, while also utilize some of the features found to predict the outcome of games
  for the 2022 season.
- Utilizes Machine Learning concepts such as Random Forests and t-SNE in order to identify key statistic
  features including a variant of the ELO Rating System which accounts for the found features in order to
  predict the outcome of NFL games within the season after.
- Created in Python

#### QuizFeed

Repo: https://github.com/AbdulAzizAl-Dalaan/QuizFeed

- A Full Stack web application where users can created quizzes and share them with other users.
- Create and customize your account and make friends with other users and message them. Create quizzes and take other ones as well and share your results with friends.
- Created in JavaScript, with React, Express, and SQLite

#### SKILLS

#### **Programming Languages**

Python, C/C++, JavaScript, SQL, HTML, CSS

#### **Tools and Frameworks**

Git/GitHub, VSCode, WSL, Unix/Linux, npm, React