# NICOLE FAVELA

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## EDUCATION

The University of Texas at El Paso (UTEP)                                      *Dec 2022*
*Bachelor of Science in Computer Science*                                      *GPA: 3.82 / 4.0*
*Minor in Mathematics*
**Achievements:** Dean's List (fall 2019, fall 2020, 2021), Microsoft Annual Scholarship recipient, graduated Magna Cum Laude

## PROFESSIONAL EXPERIENCE

**Undergraduate TA at UTEP**                                                   *Sept 2022- Dec 2022*

- Facilitated demos for omok projects in PHP, Dart, and Haskell.
- Delivered constructive grading, offering comprehensive feedback to cultivate students' growth in assignments and homework.
- Provided personalized guidance and support during weekly office hours both in person and online via Teams, ensuring students' comprehension of complex theory and programming concepts.

## RELEVANT COURSEWORK

**Machine Learning**                                                           *spring 2022*

- Learned to differentiate the types of learning problems and when to apply them to a given task.
- Studied the mathematics behind commonly used algorithms like gradient descent, neural networks, k-means, and the various performance metrics used to evaluate machine learning models.
- Implemented these machine learning models (with Tensorflow, numpy, sklearn, and Pandas).

**Software Engineering- Requirements Engineering**                             *spring 2022*

- Worked on a team using Agile methodologies and collaborated on designs to produce weekly deliverables for our clients.
- Contributed to the team by planning, subdividing tasks, and tracking progress of the weekly sprint schedule.
- Participated in weekly management meetings and client demos.

## PROJECTS:

**CAN Bus Visualizer- team final year project**                               *fall 2022*

- Created a full-stack web application using MERN stack to read and decode packets from a CAN Bus and display the ECUs of a vehicle as nodes on a map with gojs.
- Created bash script to run system and install dependencies.
- Worked on a team to produce weekly deliverables for our clients and used Jira to track progress.

**Spotify Clone Web App**                                                      *June 2023*

- Implemented React, Node, Express, and MUI Components to construct Spotify Clone application.
- Utilized Spotify's API to replicate original platform's functionalities, for a seamless user experience including playback.
- Offered features including saved music playback, recent album accessibility, playlist visibility, and efficient song/artist search functionality.

**Expense Tracker**                                                            *May 2023*

- Developed a robust MERN stack web application that provides users with the ability to login, create, modify, sort by amount and delete transactions.
- Includes pie chart breakdown of expenses by category using chart js and streamlined modern design with MUI components.

## SKILLS

**Frameworks and databases:**

- ***Frontend:*** React.js, Bootstrap
- ***Backend:*** Flask, Node.js, Express.js, MongoDB, and MySQL.

**Languages:**

- Java, Python, Javascript, Dart, CSS, HTML

## EXTRACURRICULAR ACTIVITIES

**Clubs:** RTC and SWE (Society of Women Engineers) collegiate member
**Hackathons & Events:** DEVCOM Cyber-Security hackathon