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   *September 1- Dec 10*

- Conducted demos for omok projects in PHP, Dart, and Haskell.
- Provided grades for weekly assignments as well as feedback and support for students during weekly office hours.
- Provided extra support during classes where projects were involved and assisted students with software installation.

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 TSP team using Agile methodologies 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, 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

Discord Clone App   *July 2022*

- Created a full-stack game messenger application with React, Node.js and Express that allows users to chat, send dms, emojis, and files using getstream.io API.
- Includes login and sign up so chats and profiles can be saved.
- Allows users to create, rename channels and add friends by username.

Note taking application   *June 2022*

- Completed a web application using Flask, HTML5, Bootstrap and Javascript.
- Includes user login and authentication for private notes.

SKILLS

Frameworks:

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

Languages

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

EXTRACURRICULAR ACTIVITIES

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